## **TOSHIBA**

## SERVICE MANUAL

## VIDEO CASSETTE RECORDER **V-E78**

## **TOSHIBA VIDEO PRODUCTS PTE LTD**

438B ALEXANDRA ROAD BLOCK B #06-01 ALEXANDRA TECHNOPARK SINGAPORE 119968

## **TOTAL CONTENTS**

- 1. Precautions
- 2. Reference Information
- 3. Product Specifications
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- **5. Alignment and Adjustment**
- 6. Exploded View
- 7. Replacement Parts List
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- 9. PCB Diagrams
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## 1. Precautions

- 1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
- 2. When reinstalling the chassis and its assemblies, be sure to restore all pretective devices, including: control knobs and compartment covers.
- 3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

- 4. Leakage Current Hot Check (See Fig. 1-1): Warning: Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
- 5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known erath ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

## 6. X-ray Limits:

The picture tube is designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original.

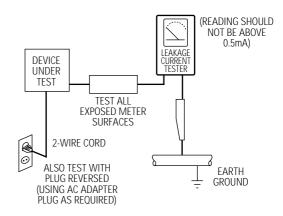


Fig. 1-1 AC Leakage Test

## 7. Antenna Cold Check:

With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong.

Connect the other lead to the coaxial connector.

## 8. High Voltage Limit:

High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.

Heed the high voltage limits. These include the *X-ray protection Specifications Label*, and the *Product Safety and X-ray Warning Note* on the service data schematic.

- 9. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
- 10. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

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- 11. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
- 12. Design Alteration Warning: Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
- 13. Hot Chassis Warning:

Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

- 14. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
- 15. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
- 16. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.
- 17. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

- 18. Picture Tube Implosion Warning:

  The picture tube in this receiver employs
  "integral implosion" protection. To ensure
  continued implosion protection, make sure that
  the replacement picture tube is the same as the
  original.
- 19. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
- 20. Product Safety Notice:

Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

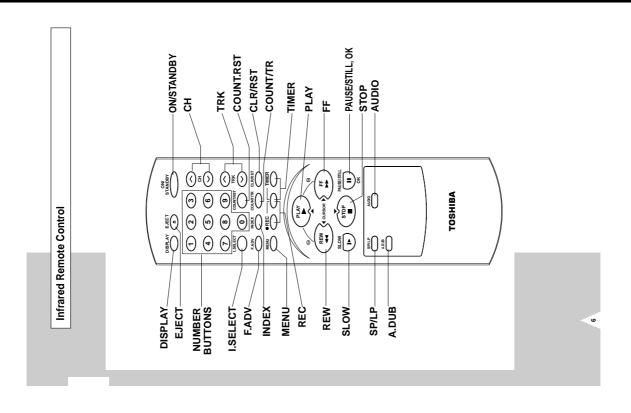
Components that are critical for safety are indicated in the circuit diagram by shading,  $(\hat{\chi} \circ \hat{\chi})$ .

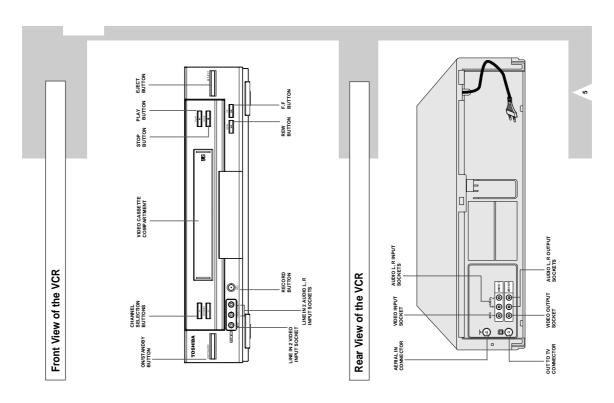
Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

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## 2. Reference Information

## 2-1 Operation of Controls





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## **Deciding How to Connect Your VCR**

You must take into account various factors when connecting audio or video systems:

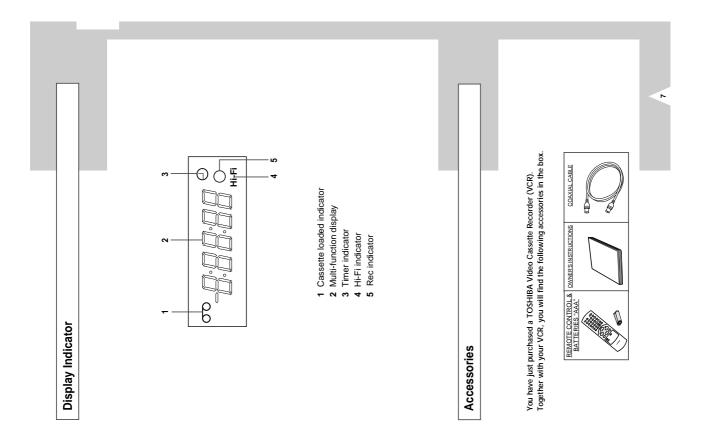
- Types of connectors available on your systems
- Systems connected permanently to the VCR or temporarily (camcorder for example)

Your VCR is equipped with the following connectors.

Connector	Location	Type	Direction	Recommended Use
LINE IN 1	Rear	Audio/Video RCA	<b>⊑ ⊕</b>	◆ Camcorder ◆ Other VCR
Audio/Video output	Rear	Audio/Video RCA	Out ©	◆ Television     ◆ Other VCR     ◆ Audio Hi-Fi system
LINE IN 2	Front	Audio/Video RCA	<b>⊆</b> ⊕	<ul> <li>◆ Audio Hi-Fi system</li> <li>◆ Camcorder</li> <li>◆ Other VCR</li> </ul>
VTOTTOO	Rear © <b>©</b>	75 Ω coaxial	Out (b)	◆ Television
IN FROM ANT. Rear	. Rear Õ	75 Ω coaxial	<b>⊆</b> ⊕	Aerial     Cable television network

Whenever you connect an audio or video system to your VCR, ensure that <u>all</u> elements are switched <u>off.</u>

Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.



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# Connecting Your VCR to the TV using the Coaxial Cable

# To receive television programmes a signal must be received from one of the following sources:

- An outdoor aerial
- A cable television network ♦ An indoor aerial

You can connect other audio and/or video equipment to your VCR in different ways. The following illustrations give a few examples of the connection possibilities.

The RCA connectors on the front and rear of the VCR are used for equipment, such as camcorders, VCRs or sound systems.

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Connecting Other Equipment to Your VCR

- Make sure that both the television and the VCR are switched  $\overline{off}$  before connecting the cables.
- Remove the aerial or network input cable from the television.
- Connect this cable to the 75 $\Omega$  coaxial socket marked  $\neg | \neg |$  on the rear of your VCR. Plug the coaxial cable supplied into the 🔟 socket on your VCR.
- To obtain better quality pictures and sound on your television, you can also connect your VCR to the television via the RCA cable (see section below) if your television is equipped with this type of connection. Plug the other end of the coaxial cable into the connector previously used for the aerial on the television.

## 2

Sound system

REAR OF THE VCR

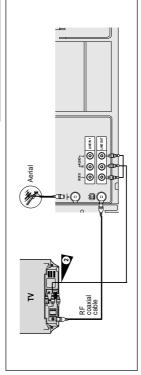
FRONT OF THE VCR 000

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Ϋ́ς R

Camcorder

# Connecting Your VCR to the TV using the RCA Cable



You can connect your VCR to the television using the RCA cable if the appropriate input is available on the

- Obtain better quality sound and pictures
- Simplify the setting up procedure of your VCR
- Regardless of the type of connection chosen, you must always connect the coaxial cable supplied. Otherwise, no picture will be visible on the screen when the VCR is switched off.
- Make sure that both the television and the VCR are switched off before connecting the cables
- Connect the coaxial cable as indicated in the above section.
- Connect one end of the RCA Audio/Video cable to the Video output and Audio L, R output socket on the rear of the VCR.
- Plug the other end into the appropriate connector on the television.

television. You thus:

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## Plug & Auto Set Up

Your VCR will automatically set itself up when it is plugged into the mains for the first time. TV stations will be stored in memory. The process takes a few minutes. Your VCR will then be ready for use.

- Connect the coaxial cable as indicated on page 9. (Connecting Your VCR to the TV Using the Coaxial Cable)
- Plug the VCR into the mains. A message appears "AUTO SET-UP WILL BE STARTED. CHECK ANTENNA AND TV CABLE CONNECTION" and then press OK to proceed.
- The process will finish after a few minutes.

  The number of stations automatically stored by the VCR depends on the number of stations that it has found. က
- On completion, press MENU twice to exit the menu.

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**Tuning Your Television for the VCR** 

You must tune your television for the VCR only if you are  $\underline{not}$  using a RCA cable

To view pictures from your VCR when a RCA cable is used, the television must be set to the audio/video mode

- Switch on the television.
- Switch on the VCR by pressing ON/STANDBY on the front of the VCR or ON/STANDBY on the remote control.

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- Select a programme position on the television to be reserved for use with your VCR.
- Insert the video cassette in the VCR. Check that the VCR starts reading the cassette; if not, press PLAY ( $\blacksquare$ ) button.
- Start a scan on your television or set the television to UHF channel 60.

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> **~**~ ∰¥ SLOW

- Fine tune the television until the pictures and sound are obtained clearly.
- If you cannot find the pictures and sound, or there is interference from nearby channels, it may be necessary to change the setting of the VCR output channel (see Solving Problems section of this

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AUTO SET-UP WILL BE STARTED. CHECK ANTENNA AND TV CABLE CONNECTION.

When the picture and sound are perfectly clear, store this channel at the desired programme position on the television. œ

That programme is now reserved for use with your VCR. Result:

# Inserting Batteries in the Remote Control

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PLEASE WALT AUTO SET UP

You must insert or replace the batteries in the remote control when you:

- Purchase the video cassette recorder
- Find that the remote control is no longer working correctly
- Push the tab in the direction of the arrow to release the battery
- compartment cover on the rear of the remote control.
- Insert two AAA, R03 or equivalent batteries, taking care to respect
  - the polarities:

    + + on the battery with + on the remote control - on the battery with - on the remote control
- Replace the cover by aligning it with the base of the control and pushing it back into place.
- Do not mix different battery types (manganese and alkaline for example). A





END: OBNO 1/JAN/2001 END: 0:000 4 





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## Notes on Batteries

- ◆ The life of the batteries is about 1 year depending on the
  - conditions of use.
- ◆ If the remote control does not operate correctly, replace all batteries with new ones.
- ◆ Do not dispose of the batteries by fire.

  ◆ If the remote controller is not to be used for a long period of time, remove the batteries to avoid possible damage from battery

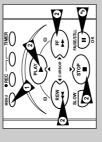
## Caring for the Remote Controller

- ◆ When using the remote controller, press the buttons at intervals
  - of about 1 second to ensure the correct mode of operation.

     Keep the remote controller away from extremely hot or humid
    - places and avoid sharp impacts. 

      ◆ Do not expose the remote sensor of the VCR to a strong light source such as direct sunlight or illumination (especially high-frequency lighting) when using the remote controller.

      ◆ Be careful do not to spill water on the remote controller or to
      - place it on anything wet.







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	00 1/JAN/2001 MOM	END : MENU
	12:00	4
<b>F</b>		

## 88 7 m 30° 00000 30°

You can choose to display or hide this information on the television screen (except for the Index, Programming MENU which cannot be

hidden).

**a)** JSER SET ₹ \$

**F**i

four VCR displays most information both on the VCR and the

Displaying/Hiding On-Screen Information

the operating range as illustrated. Distance: within about 7 m from the VCR and press the buttons within Point the remote controller at the

aso diso

Press the corresponding  $\blacktriangle$  or  $\blacktriangledown$  buttons, until the OSD option is selected.

Press the OK button to select this option.

Result: The USER SET menu is displayed.

Press 4 or ▶, until... on is displayed.

> Display on-screen information Hide on-screen information

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On completion, press MENU twice to exit the menu.

9

Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the

USER SET option.

END: MONE

The programming menu is displayed.

Result:

Press MENU on the remote control.

front of the remote sensor. within about 30° in every direction.

Angles

## Setting the Date and Time

Your VCR contains a 24-hour clock and calendar used to: Automatically stop programme recording

- Preset your VCR to record a programme automatically
- You must set the date and time when:
- You purchase the video cassette recorder
   The power supply remains off for more than 1 hour
- Do not forget to reset the time when you change clocks from winter to summer time and vice versa.
- Press MENU on the remote control. Result:
- Press the corresponding  $\blacktriangle$ ,  $\blacktriangledown$  or  $\blacktriangleleft$ ,  $\blacktriangleright$  buttons to select the CLOCK SET option. The programming menu is displayed.
- Press 

  or

  p to select the hour, minutes, day, month and year.

  Result: The option selected flashes. Press the OK button to select this option.

  Result: The CLOCK SET menu is displayed.

Press the ▲ or ▼ buttons to increase or decrease the value.

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- You can hold the ▲ or ▼ buttons down to scroll more The day of the week is displayed automatically. quickly through the values. Result:
- On completion, press MENU twice to exit the menu. 9

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You do not need to preset the stations if you have already set them automatically (see Plug & Auto Set Up on

You must preset the stations received through the tuner. This can be done:

◆ Plug & Auto Set up (see page 11) AutomaticallyManually (see page 17) You can store up to 80 stations.

END: CONT

Your VCR contains a built-in tuner used to receive television broadcasts.

page 11).

## Presetting the Stations Automatically YOUR DATA WILL BE LOST TO CONTINUE TO EXIT TV SYSTEM :G Priedse Walt AUTO SET UP NORMANIEN 16 NSTALL SET UP PROOF STATES SS OK **3)** ₩ 4 4 **F**i END: CONT END: MONE END: MONE END: MENU NEWAL AUTO SET UP MANUAL SET UP TY SYSTEM :G VCR OUTPUT CH :GH60 AUTO SET UP MANUAL SET UP TV SYSTEM NO SERVICE SERVICES OF THE SER NOMENTAL 15 PROG OPTIONS PROS OPTIONS (a) ₩ 4 ¥ 4× ∆¥ 4 **A** Fi Selecting the RF OUT Sound Mode (G, I, or K) Press the corresponding $\blacktriangle$ , $\blacktriangledown$ or $\blacktriangleleft$ , $\blacktriangleright$ buttons to select the INSTALLATION option. Press the corresponding ▲ or ▼ buttons, until the VCR OUTPUT CH option is selected. Press the corresponding ▲ or ▼ buttons, until the IV SYSTEM Select the required output channel by pressing the or or output output channel by pressing the or output output channel by pressing the or output outp Your VCR output channel may need to be changed if the pictures You must choose the sound mode (G, I or K) according to the TV set connected to your VCR. suffer from interference or if your TV cannot find the pictures. Press the corresponding $\blacktriangle$ , $\blacktriangledown$ or $\blacktriangleleft$ , $\blacktriangleright$ buttons to select the INSTALLATION option. Also, you can change the VCR output channel to adjust the frequency in which information is displayed on the screen. Press the OK button to select this option. Result: The INSTALLATION menu is displayed. Press the OK button to select this option. Result: The INSTALLATION menu is displayed. On completion, press MENU twice to exit the menu. Then tune your television again (see page 12). On completion, press MENU twice to exit the menu. Press MENU on the remote control. <u>Result:</u> The programming menu is displayed. Setting the VCR Output Channel Press MENU on the remote control. <u>Result:</u> The programming menu is displayed. Press the ▶ button to select G, I or K. option is selected.

Press OK to start the auto scaming.

Result: • The PLEASE WALT indication flashes on the television screen.

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Press the corresponding ▲ or ▼ buttons, until the AUTO UP option is selected.

Press the ▶ button to select this option.

Press the corresponding  $\triangle$ ,  $\blacktriangledown$  or  $\blacktriangleleft$ ,  $\blacktriangledown$  buttons to select the INSTALLATION option.

Press the MENU button on the remote control. Result: The programming menu is displayed.

Press the OK button to select this option.

Result: The INSTALLATION menu is displayed.

END: DISNE

The first frequency band is scanned and the first station found is displayed and stored.
 The VCR then searches for the second station and

so on.

When the automatic scanning procedure has finished, the VCR switches automatically to programme 1.

The number of stations automatically stored by the VCR

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depends on the number of stations that it has found.

If you wish to cancel the auto scanning before the end, press the MENU button three times to exit the menu.

Once the auto scanning procedure has finished, some stations may have been stored more than once; select the stations with the best reception and delete the ones no longer required (see page 18).

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END: MINI

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## Press the corresponding $\blacktriangle$ , $\blacktriangledown$ or $\blacktriangleleft$ , $\blacktriangleright$ buttons to select the INSTALLATION option. On completion, press the MENU button three times to exit the menu. Press the corresponding $\blacktriangle$ or $\blacktriangledown$ buttons, until the required preset TV station (PR) is selected. Repeat the same procedure from Step 6 onwards until all the required stations have been cleared. Press the corresponding ▲ or ▼ buttons, until the MANUAL SET UP option is selected. Press the ▶ button to select this option. Result: The TV STATION TABLE menu is displayed. Press the OK button to select this option. Result: The INSTALLATION menu is displayed. The programming menu is displayed Press the MENU button on the remote control. At the wrong programme position That you do not require Press the CLR/RST button. If you have stored a TV station: you can cancel it. Result: Clearing a Preset Station 7 4 2 9 œ 6 \*\* TV STATION TABLE \*\* PR CH NAME SYTEM 1 002 ---- B/G/D/K END: MEND END: MINI DELETE: GLR/RST MENU OUTPUT CH : CH60 NO COUNTRY HINSTANTANTON 8 0 **₽**<sup>8</sup> €)som 9 ¥ **♦** 4 \*\* TV STATION TABLE \*\* DELETE: CLR/RST MENU END: NEW MEMORY: OK END: MENU \*\* MANUAL TUNING \*\* : B/G/D/K ACR OUTPUT CH : CH60 : 002 AUTO SET UP NO THE PROPERTY OF THE PARTY OF 1 Solution Services **3)** PR CH ¥ **₩** 1 00 E **F**i

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Press the ◀ or ▶ buttons to start scanning.

Result: The frequency band is scanned and the first station

Press the P button to select MANUAL SET UP option.
Result: The TV STATION TABLE menu is displayed.
Press the A or w buttons to select a programme number as required.

Press the ▶ button to preset the station.

Result: The MANUAL TUNING menu is displayed.

found is displayed.

If you know the number of the channel you want, press the numeric buttons on the remote control for example, for channel

Press the corresponding ▲ or ▼ buttons until NAME is selected.

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04, first press "0" and then press "0", "4" (see page 39).

Press the ▶ buttons until the cursor blinking and select the

carracter by using ▲ or ▼ buttons.

9

Press the corresponding ▲ or ▼ buttons, until the MANUAL SET UP option is selected.

Press the corresponding  $\triangle$ ,  $\blacktriangledown$  or  $\blacktriangleleft$ ,  $\blacktriangleright$  buttons to select the INSTALLATION option.

Press the MENU button on the remote control. Result: The programming menu is displayed

Press the OK button to select this option.

Result: The INSTALLATION menu is displayed.

You must preset the stations received through the tuner. This can

Plug & Auto Set up (see page 11) Automatically (see page 16)

Your VCR contains a built-in tuner used to receive television

broadcasts.

Presetting the Stations Manually

You do not need to preset the stations manually if you

You can store up to 80 stations.

have already set them automatically

Press the corresponding ▲ or ▼ buttons, until the CH is selected.
 Press the ∢ or ▶ buttons to go on scanning the frequency band and display.

Go back to the beginning of Step 9

Repeat this procedure from Step **6** onwards, until all the required stations have been stored.

On completion, press the MENU button three times to exit the menu.

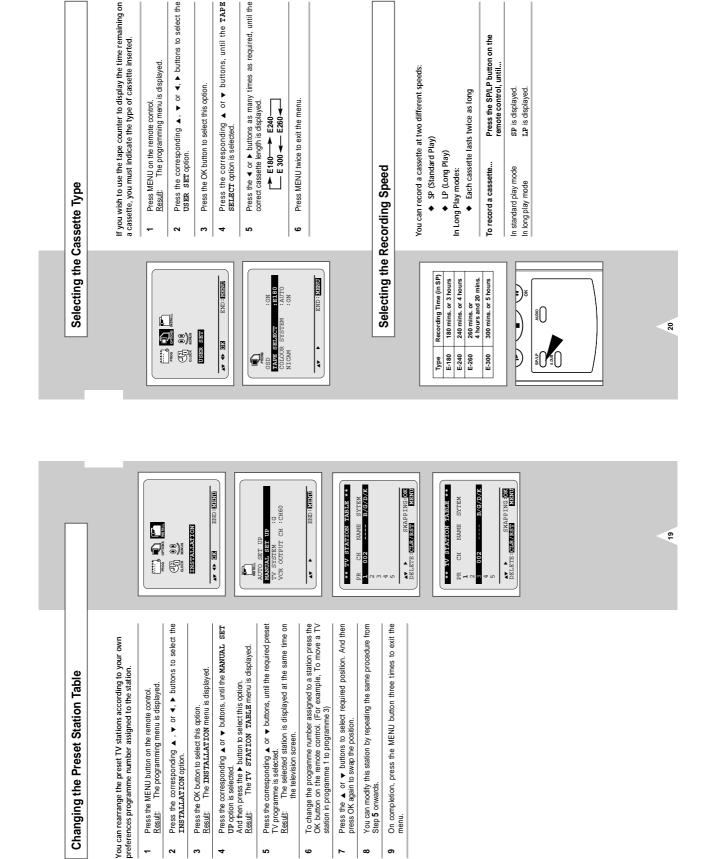
12 2

Press the corresponding ▲ or ▼ buttons, until the MFT is selected.
 Press the ◀ or ▶ buttons to adjust the

Wish to store the station displayed Press OK to store the station .

Do not wish to store the station

picture, if necessary.



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station in programme 1 to programme 3)

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## Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape. If you wish to protect a cassette, break off the tab using a small screwdriver. To re-record over a protected cassette (safety tab broken), cover the hole with adhesive tape. To monitor the programme being recorded, select the television channel reserved for use with your VCR (or the AV input if used). The station number is displayed and the programme can be seen on the television. Select the recording speed (SP/LP) by pressing the SP/LP button as many times as required (see page 20). The record indicator appears on the television and VCR display. An index is recorded on the tape (see page 30). If you reach the end of the tape while recording, the cassette rewinds automatically. Before recording a programme, you must have preset the corresponding station (unless you are recording via an external video source). If you have not done so, refer to pages 16 and 17. Video cassettes have a safety tab to prevent accidental erasure. When this tab has been removed, you <u>cannot</u> record on the tape. If the cassette is ejected when you start recording, check that the safety tab is intact or the opening is covered with adhesive tape. Select: ◆ The station to be recorded using the CH (∧ or ✓) buttons or The LINE IN 1 or LINE IN 2 source using the I.SELECT button for a satellite tuner or external video source The VCR is switched on automatically. Hold REC down for a while to start recording. To stop recording, press ■ once. Recording a Programme Immediately Switch on the television. Protecting a Recorded Cassette Result: 7 2 9 E PAUSE/STILL # ★ # ★ 0 0 0 0 0 AUDIO Oglo 52 ₽₹ ₩¥ A No. SP/LB

## END: MENT END: MEND ON: E180 ۲ OSD TAPE SELECT USER SET ₩ 4 Son q Fi Þ OFF is displayed. OFF: Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior Press the corresponding ▲ or ▼ buttons, until the NICAM option is selected. NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM Morgrammes are always accompanied by a standard mono sound broadcast and you can select the desired sound. Press the corresponding $\blacktriangle$ , $\blacktriangledown$ or $\blacktriangleleft$ , $\blacktriangleright$ buttons to select the USER SET option. ON is displayed. ON: Normally set at this position. On completion, press MENU twice to exit the menu. reception conditions. Result: The programming menu is displayed. Press the OK button to select this option. Result: The USER SET menu is displayed. Press ◀ or ▶, until... Press MENU on the remote control. Please refer to page 27. Mono mode NICAM ۵. 4 9

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# Recording a Programme with Automatic Stop

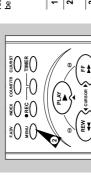
## programmes. (LP)

- as many times as required (see page 20)

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## Using the Timer Programming Feature

The Timer Programming feature allows you to preset the VCR to record a programme up to one month before that programme is to be broadcast. Up to six programmes can be preset.



Before presetting a recording, check that the date and

Insert a cassette with the safety tab attached.

- Press MENU on the remote control.
- Press the OK button to select TIMER PROGRAMING option.

  Result: The TIMER PROGRAMING menu is displayed. The programming menu is displayed. Result:
- I.SELECT to select the LINE IN 1 or LINE IN 2 input sources. Select the required station by pressing the ▲, ▼ buttons or

Press ▶ to select the input source.

- Select the required day by pressing the ▲ or ▼ buttons. Press ▶ to select the recording day.
- Select the required hour value by pressing the ▲ or ▼ buttons. Press ▶ to select the recording start time.
- Select the required minute value by pressing the ▲ or ▼ buttons. Press ▶ to select the minutes. Ξ 6
- Select the required recording end time by pressing the ▲ or ▼ buttons, following the same procedure as when selecting the recording start time. Press ▶ to select the recording end time. 7 5
  - Press ▶ to select the the recording speed (AUTO/SP/LP). 4
- Press the ▲ or ▼ buttons to switch between the AUTO, SP (Standard Play) or LP (Long Play). 15
  - When you have finished, press the MENU button. 16
- Press the ON/ STANDBY button to activate the timer. 4

Before starting recording, the VCR compares the timer duration with the remaining time on the cassette. Result:

Auto Tape Speed Select

The VCR's "Auto Tape Speed Select" function compares the duration of the timer recording to the actual recording time remaining on the tape loaded. If there is insufficient tape to complete a timer recording in AUTO mode, the VCR automatically switches to LP mode to record the whole programme

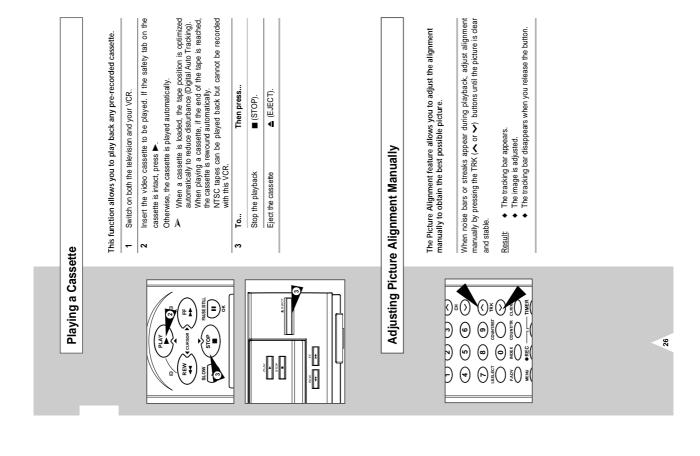
If there is a one hour AUTO mode timer recording to be started, but only 40 minutes of tape remaining, the VCR will record in SP for 20 minutes and switch to LP mode for the remaining 40 minutes. E.9.

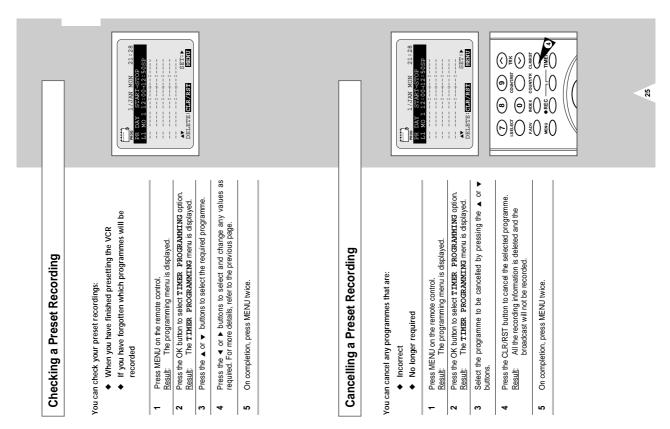
00 D\*O #O #O SET LENGTH : PRESS REG • LENGTH 2:30 List Ect.

List Ect. DISPLAY The LINE IN 1 or LINE IN 2 source using the I.SELECT button for a satellite tuner or external video source sult: The channel number is displayed and the programme The length is displayed on the television displays. The selected programme is recorded for the length of time requested. At the end of that time, the VCR stops Insert the cassette on which the programme is to be recorded, with the windrow visible and the safety tab intact or the opening covered with adhesive tape.

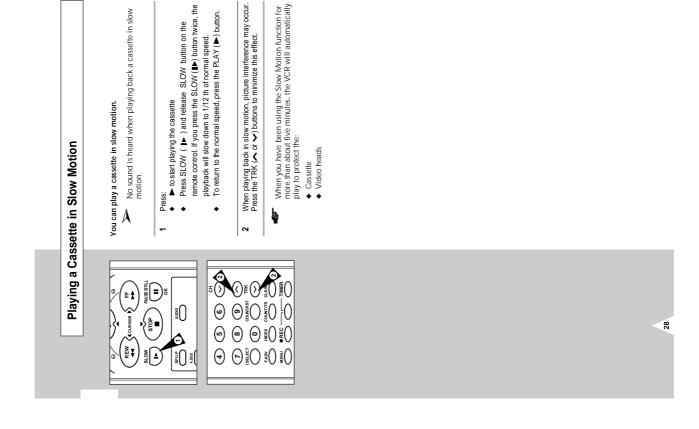
Result: The VCR is switched on automatically. The record indicator appears on the television screen and VCR display. An index is recorded on the tape (see page 30). Select the recording speed (SP/LP) by pressing the SP/LP button Press the REC button several times to increase the recording time To monitor the programme being recorded, select the televisior channel reserved for use with your VCR (or the AV input if used) Your VCR stops automatically after the requested length of time. Select:
◆ The station to be recorded using the CH ( > or < > buttons If you wish to cancel the recording before the end, press ON/STANDBY. If the end of the tape is reached while recording: Hold the REC button down for a while to start recording. This function enables you to record up to nine hours of The recording stops The VCR automatically turns off 30-minute intervals up to four hours 1-hour intervals up to nine hours (LP) recording automatically. Switch on the television. Result: Result:

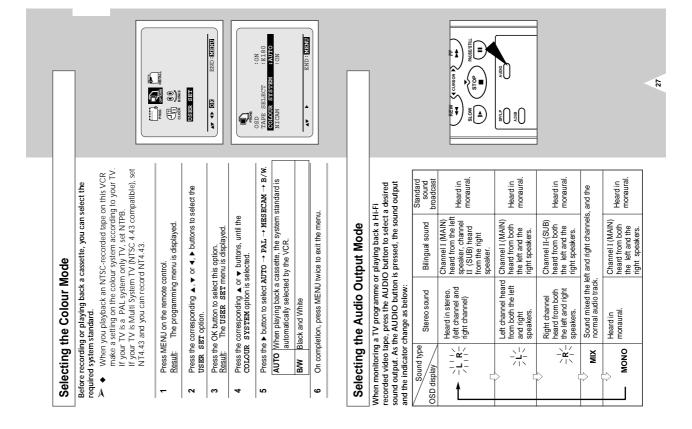
2-10 Toshiba



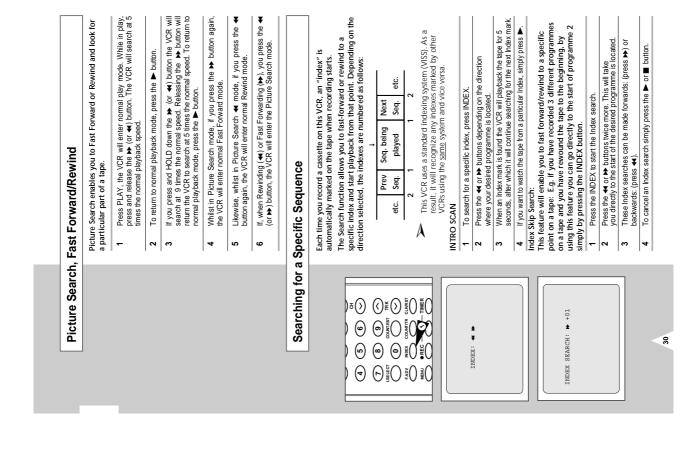


Toshiba 2-11



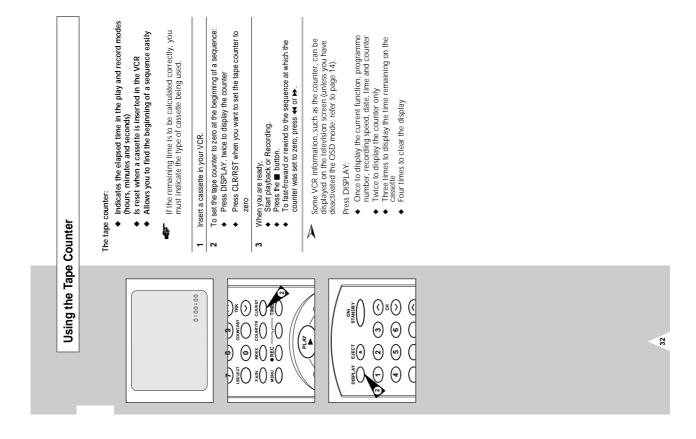


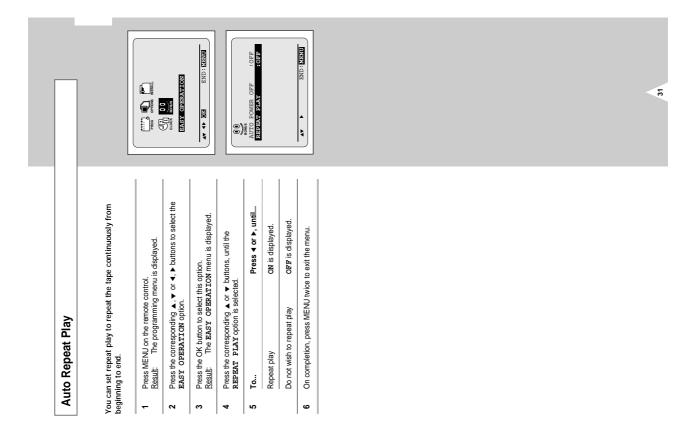
2-12 Toshiba



## () k () g () k () COUNTRST INDEX COUNTRST OF C 29 6 Own Ord O To return to normal playback, press PAUSE/STILL (II) button When you have been using the Frame-by-Frame function for more than about five minutes, the VCR will automatically play to protect the cassette and video heads. No sound is heard when playing back frame by frame. Vertical stability: When playing back frame by frame, interference may be seen on the screen. Press the Playing a Sequence Frame by Frame PAUSE/STILL (II) to stop the tape at a given frame TRK ( or c) buttons to minimize this effect. Stop the cassette at a given frame (image) Press: ◆ PLAY (▶) to start playing the cassette F.ADV to advance frame by frame Advance one frame at a time again. You can: A

Toshiba 2-13





2-14 Toshiba

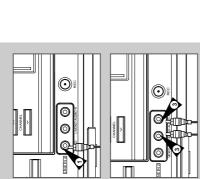
# Connecting an RCA Audio/Video Input Cable

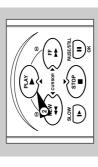
You can connect other audio/video equipment to your VCR using audio/video cables if the appropriate outputs are available on the equipment chosen.

- Examples: ◆ You wish to copy a video cassette with the help of a second VCR (see page 34).
  - You wish to play back and/or copy pictures taken with a camcorder (see page 34)
- You wish to dub a prerecorded video cassette with sound from a stereo system (see page 35).
- Regardless of the type of connection chosen, you must always connect the coaxial cable supplied. Otherwise, no picture will be visible on the screen
- Make sure that both the television and the VCR are switched off before connecting the cables. when the VCR is switched off.
- Connect one end of the RCA A/V cable into the VIDEO INPUT socket on the front of the VCR.
  - Plug the other end of the A/V cable into the appropriate output connector on the other system (VCR or camcorder).

7 m

- Connect one end of the RCA audio cable supplied into the AUDIO INPUT sockets on the front of the VCR.
  - Take care to respect the colour coding of the left and right
- Plug the other end of the audio cable into the appropriate output connectors on the other system (VCR, camcorder or Hi-Fi sound system). 4





## Using the Assemble Edit Function

position on the cassette while maintaining a very smooth scene change. This function allows you to start a new recording at a specific

<ol> <li>Insert the cassette to be edited in your VCR.</li> <li>Press the ▶ button to start playback.</li> </ol>	3 When you reach the position from which you wish to start the recording, press the PAUSE/STILL button.	-   2   E	Insert the cassette to be edited in your VCR.  Press the ▶ button to start playback.  When you reach the position from which you wish to start the new recording, press the PAUSE/STILL button.
--	---	-----------	---

- Press the F.ADV button as often as necessary to advance frame by frame, until the exact recording position is located.
  - While the VCR is in still mode, hold the REC button down for a while to activate the Assemble Edit function.
    - Record symbol flashes in the display. Result:

9

- Select the source from which you wish to record by pressing:
  ◆ The CH (▲ or ▼) buttons for television channels
  ◆ The I.SELECT button for the LINE IN 1 or LINE IN 2 input
  - When you have finished recording, press ■. Press the ▶ button to start recording. œ
- There might be some noise in the picture at the end of A smooth edited scene will only be achieved if there are of the same video system.

# Recording from Another VCR or Camcorder

recording

You can copy a cassette to your VCR from another video source, such as another VCR or a camcorder.

It is an infringement of copyright laws to copy prerecorded cassettes or to re-record them in any form without the permission of the owners of the corresponding copyright.

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Connect the VCR, <u>from</u> which the cassette is to be copied, to the appropriate RCA audio and video input connectors on the rear of your VCR. as incleated not page 10. You can also use a RCA audio and video cable to connect the LINE IN 2 input on the front of your VCR.

Insert the pre-recorded cassette in the other video source (VCR or Insert a blank cassette in your VCR. 7 က

Press the I.SELECT button to select the appropriate input on your camcorder).

LINE IN 1 for the rear inputLINE IN 2 for the front input

When you have finished recording, press ■ on both VCRs.

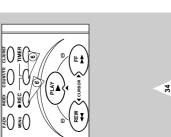
Hold REC down for a while to start recording on your VCR.

Start playing back the cassette to be copied.

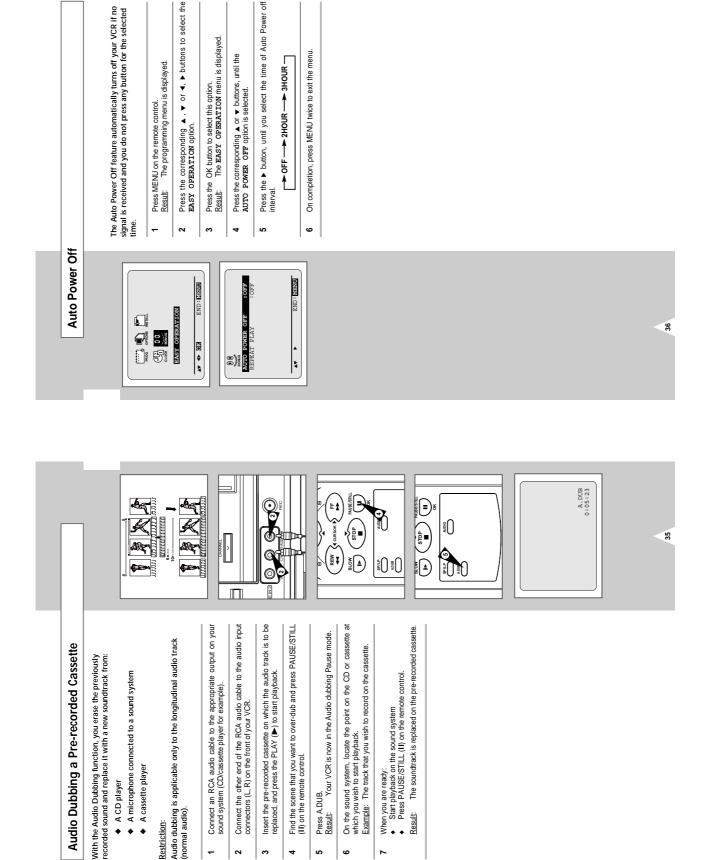
2 9

Your VCR must be connected as usual to the television (see page 9 for further details) If you wish to view the cassette being copied: A

33



Toshiba 2-15



2-16 Toshiba

9

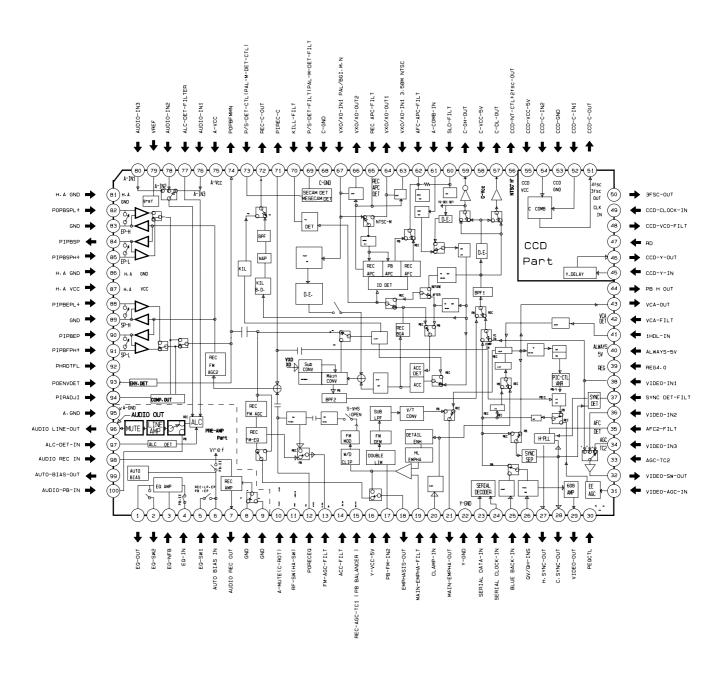
2

က

 A cassette player ◆ A CD player

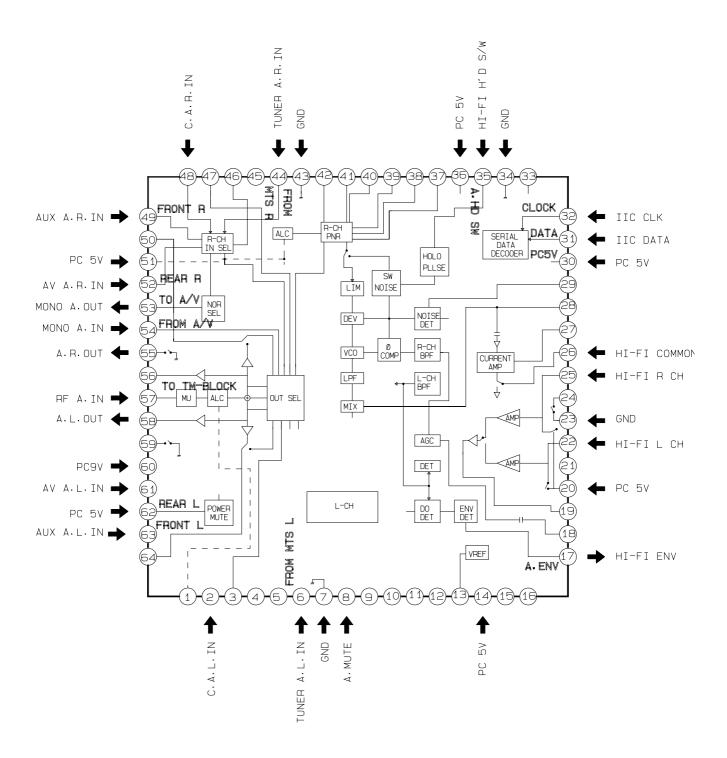
## 2-2 IC Blocks

## 2-2-1 IC301 (LA71598M)



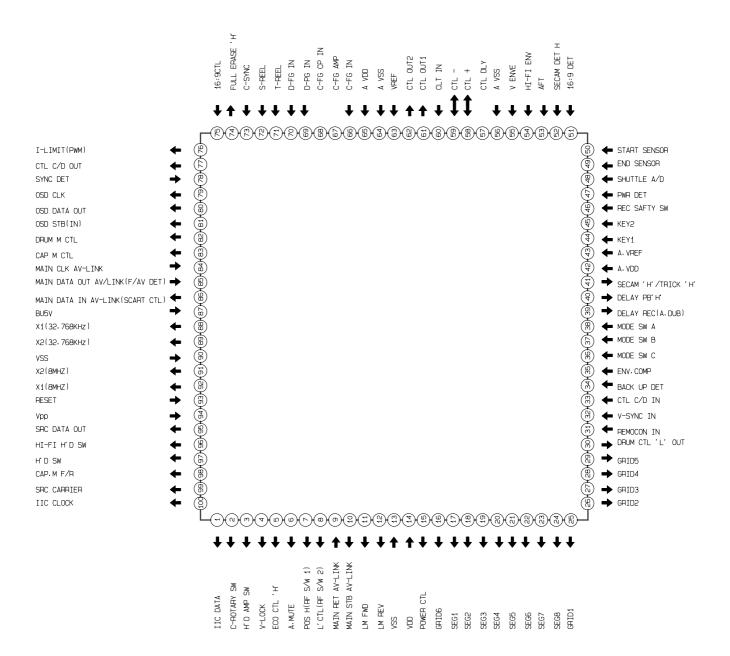
Toshiba 2-17

## 2-2-2 IC501 (LA72634AM)



2-18 Toshiba

## 2-2-3 IC601 (uPD784928)



Toshiba 2-19

## **MEMO**

2-20 Toshiba

## 3. Product Specifications

Design and specifications are subject to change without notice.

**Format** VHS PAL standard Heads Video: 4 rotary heads

Hi-Fi audio: 2 rotary heads Audio/Control: 1 stationary head

Erase: 1 full track erase head

Receiving channel VHF-I, VHF-III, UHF, Interband/Hyperband

Television system STANDARD B/G-D/K-I Luminance FM azimuth recording

Colour system PAL/MESECAM/NTSC: Down converted subcarrier phase shifted

direct recording

NTSC PB on PAL TV

<PAL/MESECAM> <NTSC>

SP 23.39 mm/sec SP 33.35 mm/sec Tape speed

SLP LP 11.69 mm/sec 11.12 mm/sec

<PAL/MESECAM>

Recording/playback time SP 3 hours (E-180 Tape)

LP 6 hours (E-180 Tape)

**REW time** About 60 sec in REW with E-180

**VIDEO** 

Input 0.5 to 2.0 Vp-p; 75 ohm unbalanced  $1.0 \pm 0.2$  Vp-p; 75 ohm unbalanced Output

Better than 43 dB (SP) Signal-to-noise ratio Horizontal resolution More than 240 lines (SP)

**AUDIO** 

Input -8 dBm, 47 Kohm unbalanced Output -8 ± 3 dBm. 1 Kohm unbalanced

Wow and flutter (WTD) 0.4% max (SP) 68 dB min (IHF A filter) Signal-to-noise ratio

20Hz - 20kHz Frequency response

Power requirement AC 100-240V 50/60 Hz Power consumption Approx. 17 watts Operation temperature 41°F-104°F (5°C-40°C)

Operation humidity 10%-75% Weight 2.8 Kg (net)

Dimensions (WxHxD) 430 x 94 x 299 mm

Toshiba 3-1

## **MEMO**

3-2 Toshiba

## 4. Disassembly and Reassembly

## **4-1 Cabinet Assembly**

## 4-1-1 Cabinet Top Removal

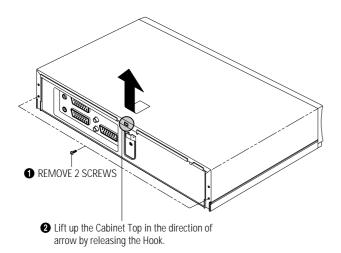


Fig. 4-1 Cabinet Top Removal

## 4-1-2 Bottom Cover Removal

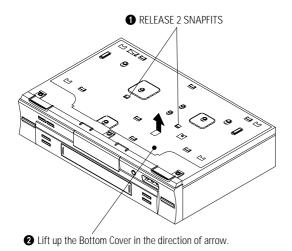


Fig. 4-2 Bottom Cover Removal

## 4-1-3 Ass'y Front Panel Removal

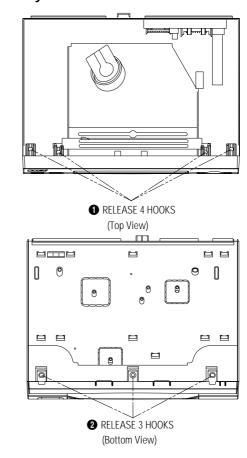


Fig. 4-3 Ass'y Front Panel Removal

## 4-1-4 Ass'y Function PCB Removal

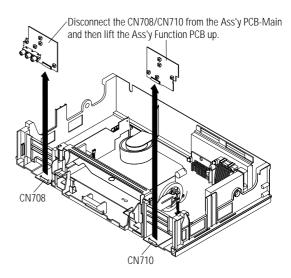


Fig. 4-4 Ass'y Function PCB Removal

Toshiba 4-1

## 4-1-5 Chassis Removal

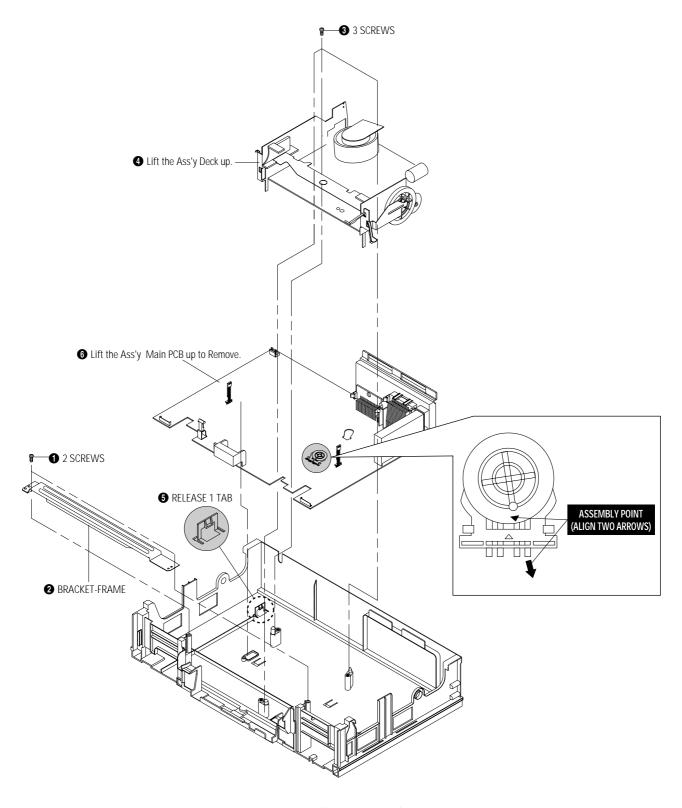


Fig. 4-5 Chassis Removal

4-2 Toshiba

## **4-2 Deck Parts Locations**

## 4-2-1 Top View

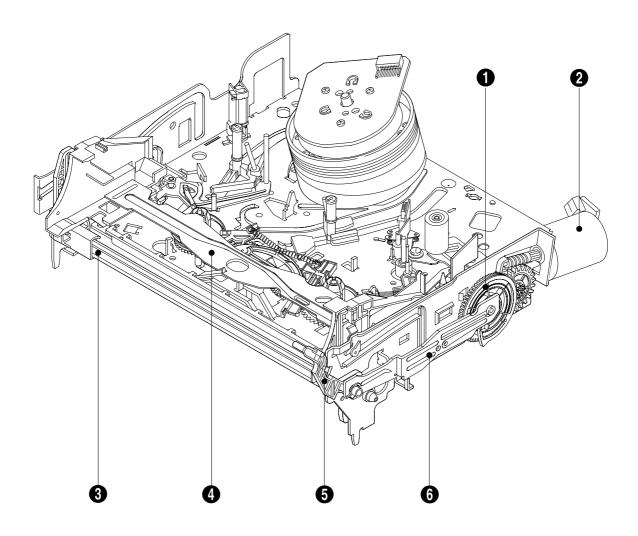


Fig. 4-6 Top parts Location-1

- **1** GEAR FL CAM
- **2** MOTOR LOADING ASS'Y
- **3** LEVER FL ARM ASS'Y
- 4 HOLDER FL CASSETTE ASS'Y
- **5** LEVER FL DOOR
- **6** SLIDER FL DRIVE

Toshiba 4-3

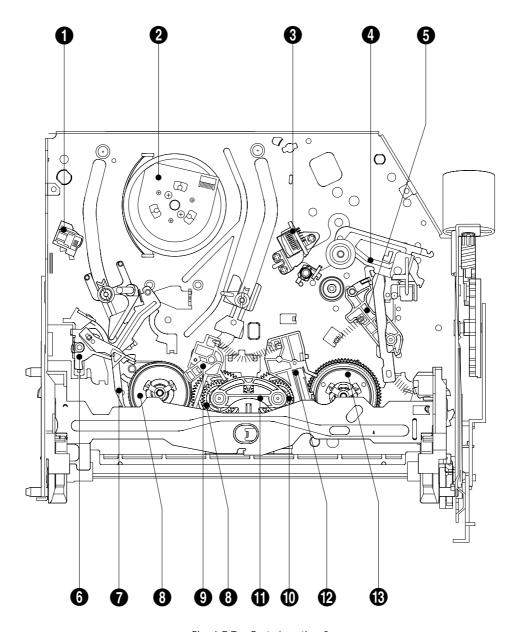


Fig. 4-7 Top Parts Location-2

- FE HEAD
- CYLINDER ASS'Y
- ACE HEAD ASS'Y
- LEVER UNIT PINCH ASS'Y
- LEVER #9 GUIDE ASS'Y
- LEVER TENSION ASS'Y
- BAND BRAKE ASS'Y

- DISK S REEL
- LEVER S BRAKE ASS'Y
- GEAR IDLE
- 1 LEVER IDLE
- LEVER T BRAKE ASS'Y
- DISK T REEL

4-4 Toshiba

## 4-2-2 Bottom View

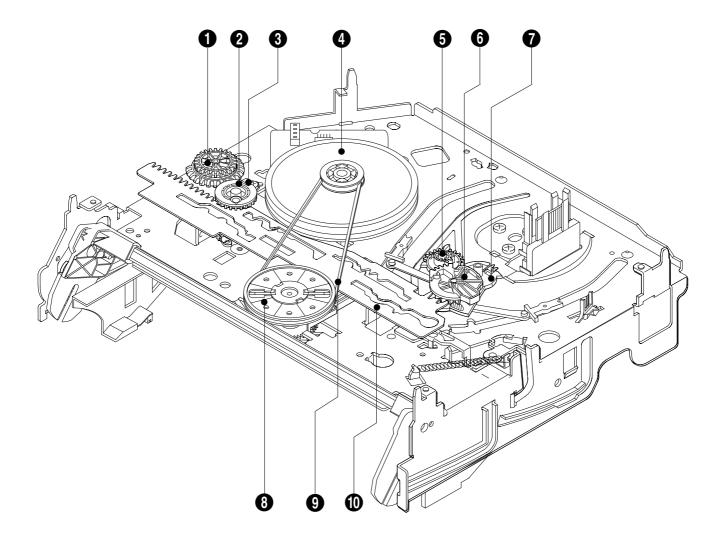


Fig. 4-8 Bottom Parts Location

- **1** GEAR JOINT 1
- **2** GEAR JOINT 2
- **3** BRACKET GEAR
- **4** MOTOR CAPSTAN ASS'Y
- **5** LEVER T LOAD ASS'Y
- **6** GEAR LOADING DRIVE
- LEVER S LOAD ASS'Y
- **8** HOLDER CLUTCH ASS'Y
- BELT PULLEY
- **10** SLIDER CAM

Toshiba 4-5

## 4-3 Main Deck

## 4-3-1 Lever FL Door Removal

- 1) Push the Holder FL Cassette Ass'y **1** about 20mm in the direction of arrow "A".
- 2) Rotate the Lever FL Door **2** in the direction of arrow "B".
- 3) Release the Hook 3 and Remove the Lever FL Door 2 in the direction of arrow "C".

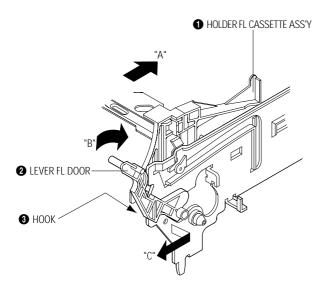


Fig. 4-9 Lever FL Door Removal

## 4-3-2 Holder FL Cassette Ass'y Removal

- 1) Pull the Holder FL Cassette Ass'y **1** to the eject position.
- 2) Pull the Holder FL Cassette Ass'y ① as grasping the Holder FL Cassette Ass'y ① and Lever FL Cassette-R ② in the same time to release hooking from Main Base until the Boss [A] of Holder FL Cassette Ass'y ① is taken out from the Rail [B].
- 3) Lift the Holder FL Cassette Ass'y ①, in this time, you have to grasp the Lever FL Cassette-R ② Continuously until the Holder FL Cassette Ass'y ① is taken out completely.

**Note**: Be sure to insert Lever FL Cassette-R ② in the direction of "A" to prevent separation and breakage of the Lever FL Cassette-R ② at disassembling and reassembling.

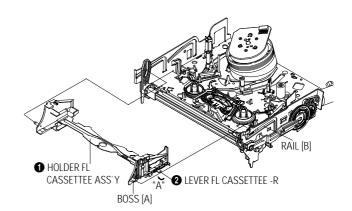


Fig. 4-10 Holder FL Cassette Ass'y Removal

4-6 Toshiba

## 4-3-3 Slider FL Drive, Gear FL Cam Removal

- 1) Pull the Slider FL Drive 1 to the front direction.
- 2) Remove the Slider FL Drive **1** in the direction of arrow. (Refer to Fig. 4-11)
- 3) Remove the Gear FL cam 2.

**Note**: When reinstalling be sure to reassemble Slider FL drive **1** after you insert the Boss of Lever FL ARM-R in Groove of Slider Fl drive **1**.

**Assembly**: Align the Gear FL Cam ① with the Gear worm wheel Post as shown drawing. (Refer to Timing point)

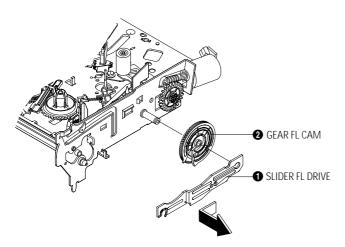


Fig. 4-11 Slider FL Drive Removal

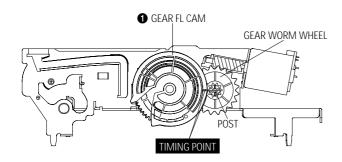


Fig. 4-12 Gear FL Cam, Gear Worm

## 4-3-4 Lever FL Arm Ass'y Removal

- 1) Push the hole "A" in the direction of arrow "B" use the pin.(about Dia. 2.5)
- 2) Pull out the Lever FL Arm Ass'y **1** from the Boss of Main Base.
- 3) Remove the Lever FL Arm Ass'y **1** in the direction of arrow "C".

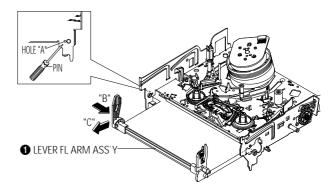


Fig. 4-13 Lever FL Arm Ass'y Removal

Toshiba 4-7

## 4-3-5 Gear Worm Wheel Removal

## 1) Remove the Gear Worm wheel **1**.

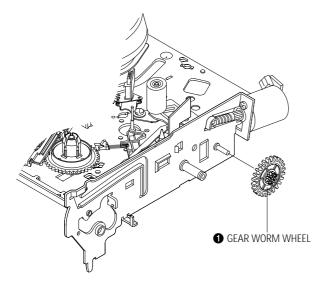


Fig. 4-14 Gear Worm Wheel Removal

## 4-3-6 Motor Loading Ass'y Removal

- 1) Remove the screw **1**.
- 2) Remove the Motor Loading Ass'y **2**.

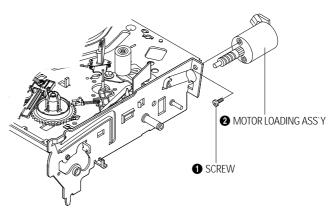


Fig. 4-15 Motor Loading Ass'y Removal

4-8 Toshiba

## 4-3-7 Bracket Gear, Gear Joint 2, 1 Removal

- 1) Remove the Screw **1**.
- 2) Remove the Bracket Gear 2.
- 3) Remove the Gear Joint 2 3.
- 4) Remove the Gear Joint 1 4.

## **Assembly**:

- 1) Be sure to align dot mark of Gear Joint 1 ① with dot mark of Gear Joint 2 ② as shown Fig 4-17. (Refer to Timing point1)
- 2) Confirm the Timing Point 2 of the Gear Joint 2 **2** and Slider Cam **3**.

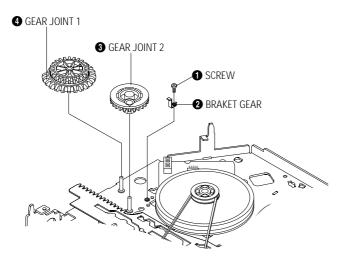


Fig. 4-16 Bracket Gear, Gear Joint 1,2 Removal

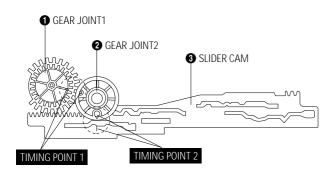


Fig. 4-17 Gear Joint 1,2 Assembly

## 4-3-8 Gear Loading Drive, Slider Cam, Lever Load S, T Ass'y Removal

- 1) Remove the Belt Pulley. (Refer to Fig. 4-35)
- 2) Remove the Gear Loading Drive **1** after releasing Hook [A] in the direction arrow as shown in detail drawing.
- 3) Remove the Slider Cam 2.
- 4) Remove the Lever Load **3**, Link Load **5** & Lever Load **4**, Link Load **6**.

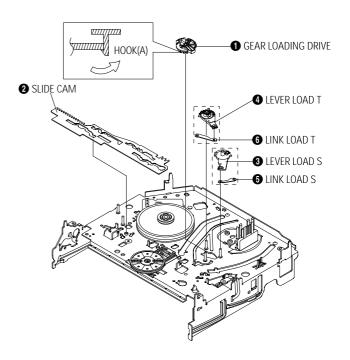
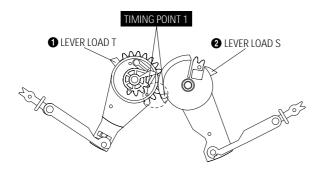


Fig. 4-18 Gear Loading Drive, Slider Cam, Lever T, S Load Ass'y Removal

Toshiba 4-9

#### 4-3-9 Gear Loading Drive, Slider Cam, Lever Load S, T Ass'y Assembly

- 1) When reinstalling, be sure to align dot of Lever Load T Ass'y ① with dot of Lever Load S Ass'y ② as shown in drawing, (Refer to Timing Point 1).
- 2) Insert the Pin A,B,C,D into the Slider Cam 3 hole,
- 3) Be sure to align dot of Lever Load T ① and dot of Gear Loading Drive ②, (Refer to Timing Point 2).
- 4) Aline dot of Gear Loading drive **4** with mark of Slider Cam **3** as shown in drawing (Refer to Timing Point 3).



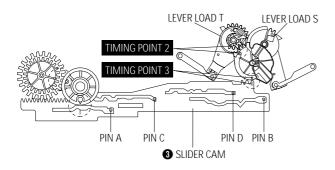


Fig. 4-19 Gear Loading Drive, Slider Cam, Lever Load S, T Ass'y Assembly

#### 4-3-10 Lever Pinch Drive, Lever Tension Drive Removal

1) Remove the Lever Pinch Drive **1**, Lever Tension Drive **2**.

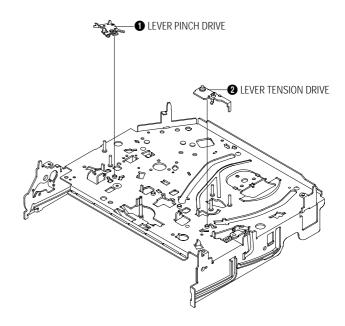


Fig. 4-20 Lever Pinch Drive, Lever Tension Drive Removal

4-10 Toshiba

#### 4-3-11 Lever Tension Ass'y, Band Brake Ass'y Removal

- 1) Remove the Lever Brake S Ass'y (Refer to Fig 4-22).
- 2) Remove the Spring Tension Lever **1**.
- 3) Rotate stopper of Main Base in the direction of arrow "A".
- 4) Lift the Lever Tension Ass'y **2** & Band brake Ass'y **3**.

#### Note:

- 1) When replacing the Lever Tension Ass'y **2**, be sure to apply Grease on the post,
- 2) Take care not to touch stain on the felt side, and not to be folder and broken Band brake Ass'y
- 3) After Lever Tension Ass'y seated, Rotate stopper of Main Base to the Mark[B].

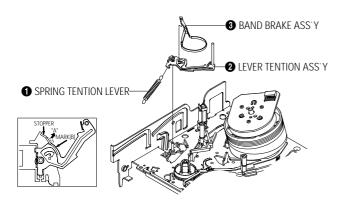


Fig. 4-21 Lever Tension Ass'y, Band Brake Ass'y Removal

#### 4-3-12 Lever Brake S, T Ass'y Removal

- 1) Release the Hook [A] and the Hook [B], [C] in the direction of arrow as shown in Fig 4-22.
- 2) Lift the Lever S, T Brake Ass'y **1**, **2** with spring brake **3**.

#### Assembly:

- 1)Assembly the Lever S Brake Ass'y **1** on the Main Base.
- 2)Assembly the Lever T Brake Ass'y ② with spring brake ③.

**Note**: Take extreme care not to be folded and transformed Spring Brake at removing or reinstalling.

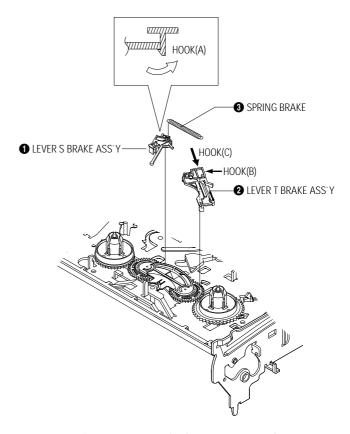


Fig. 4-22 Lever Brake S, T Ass'y Removal

Toshiba 4-11

#### 4-3-13 Gear Idle Ass'y Removal

- 1) Push the Lever Idle **1** in the direction of arrow "A", "B".
- 2) Lift the Lever Idle **1**.

#### **Assembly**:

- 1) Apply oil in two Bosses of Lever Idle **1**.
- 2) Assemble the Gear Idle **2** with the Lever Idle **1**.

**Note**: When replacing the Gear Idle **②**, be sure to add oil in the boss of Lever Idle **①**.

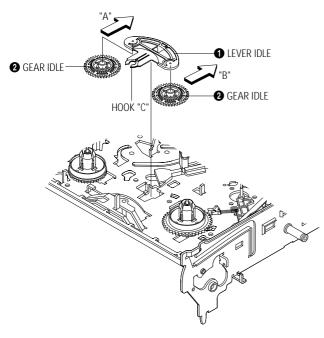


Fig. 4-23 Gear Idle Ass'y Removal

#### 4-3-14 Disk S, T Reel Removal

1) Lift the Disk S, T Reel 1, 2.

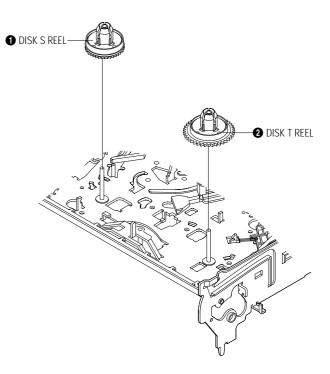


Fig. 4-24 Disk S, T Reel Removal

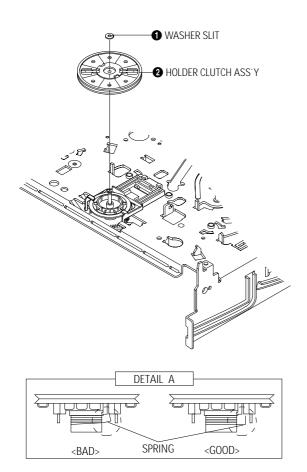
4-12 Toshiba

#### 4-3-15 Holder Clutch Ass'y Removal

- 1) Remove the Washer Slit 1.
- 2) Lift the Holder Clutch Ass'y **2**.

**Note**: When you reinstall Holder Clutch Ass'y

- 1) Check the condition of spring as shown in detail A.
- 2) Don't push Holder Clutch Ass'y down with excessive force Just insert Holder Clutch Ass'y into post center with dead force and Rotate it smoothly. Be sure to confirm that spring is in the slit of Gear Center Ass'y as shown in detail B.



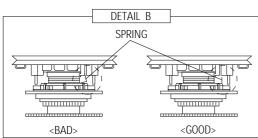


Fig. 4-25 Holder Clutch Ass'y Removal

## 4-3-16 Lever Up Down Ass'y, Gear Center Ass'y Removal

- 1) Remove the 2 hooks in the direction of arrow as shown Fig. 4-26 and lift the Lever Up Down Ass'y ①.
- 2) Lift the Gear Center Ass'y 2.

#### **Assembly**:

- 1) Insert the Lever Up Down Ass'y **1** in the rectangular holes on Main Base as shown in Fig 4-27.
- 2) Lift the Lever Up Down Ass'y **1** about 35 degree.(Refer to Fig 4-27)
- 3) Insert Ring of the Gear Center Ass'y ② in the Guide of the Lever Up Down Ass'y ①.
- 4) Insert the Gear Center Ass'y ② in the post on Main Base.
- 5) Push down the Lever Up Down Ass'y **1** for locking of the Hook.

#### Note:

- 1) Take care not to separate and sentence does not mark sense.
- 2) Be sure to confirm that Ring of the Gear Center Ass'y ② is in the Guide of the Lever Up Down Ass'y ① after finishing assembly of Lever Up Down Ass'y ① and Gear Center Ass'y ②.

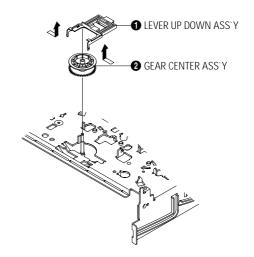


Fig. 4-26 Lever Up Down Ass'y Removal

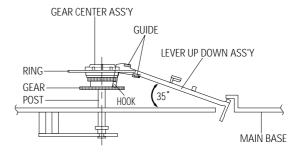


Fig. 4-27 Lever Up Down Ass'y Removal

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#### 4-3-17 Guide Cassette Door Removal

- 1) Lift the Hook [A].
- 2) Rotate the Guide Cassette Door **1** in the direction of arrow.

**Note**: After reinstalling the Guide Cassette Door **1** sure the Hook [A].

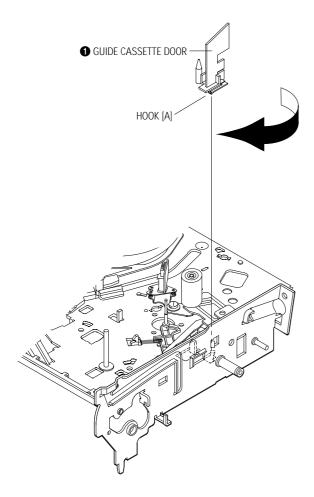


Fig. 4-28 Guide Cassette Door Removal

#### 4-3-18 Lever Unit Pinch Ass'y, Plate Joint, Spring Pinch Drive Removal

- 1) Lift the Unit Pinch Ass'y **①**.
- 2) Remove the Plate Joint **2** from Lever Pinch Drive.
- 3) Remove the Spring Pinch Drive **3**.

#### Note:

- 1) Take extreme care not to touch the grease on the Roller Pinch.
- 2) When reinstalling, be sure to apply grease on the post pinch roller.

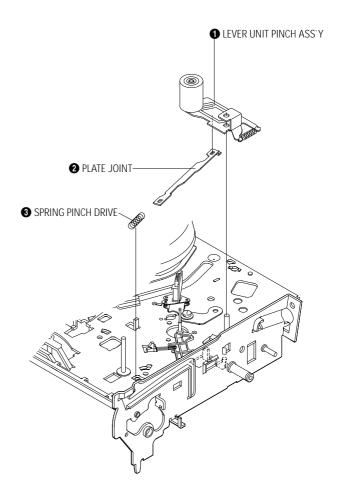


Fig. 4-29 Lever Unit Pinch Ass'y, Plate Joint, Spring Pinch Drive Removal

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#### 4-3-19 Lever #9 Guide Ass'y Removal

- 1) Remove the Spring #9 Guide **1**.
- 2) Lift the Spring #9 Guide Ass'y **2** in the direction of arrow "A".

#### Note:

- 1) Take extreme care not to get grease on the tape Guide Post.
- 2) After reinstalling, check the bottom side of the Post #9 Guide to the top side of Main Base.

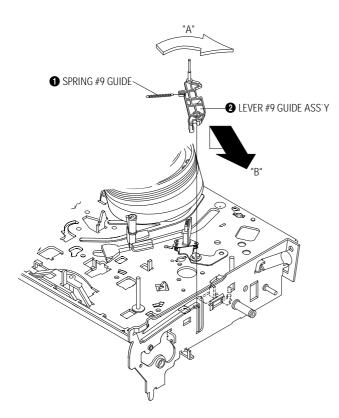


Fig. 4-30 Lever #9 Guide Ass'y Removal

#### 4-3-20 FE Head Removal

- 1) Remove the screw **1**.
- 2) Lift the FE Head **2**.

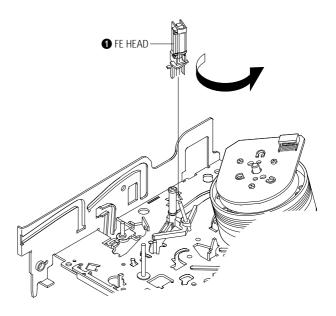


Fig. 4-31 FE Head Removal

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#### 4-3-21 ACE Head Removal

- 1) Pull out the FPC from connector of ACE Head Ass'y **2**.
- 2) Remove the screw **1**.
- 3) Lift the ACE Head Ass'y **2**.

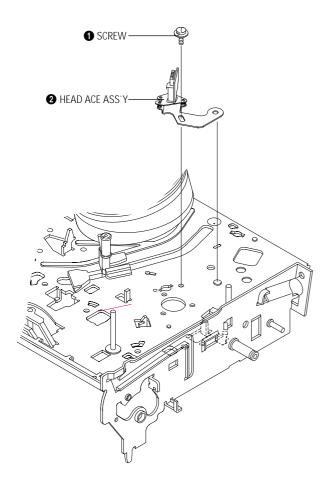


Fig. 4-32 ACE Head Removal

#### 4-3-22 Slider S, T Ass'y Removal

1) Move the Slider S, T Ass'y **1**, **2** to slot, and then lift it to remove. (Refer to arrow)

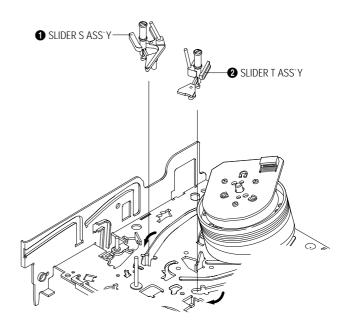


Fig. 4-33 Slider S, T Ass'y Removal

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#### 4-3-23 Plate Ground Deck, Cylinder Ass'y Removal

- 1) Remove the 3 Screws **①**.
- 2) Lift the Plate Ground Deck 2.
- 3) Lift the Cylinder Ass'y **3**.

#### Assembly:

- Match the 3 holes in the bottom of Cylinder ass'y
   to the 3 holes of Main Base as attending not to drop or knock the Cylinder ass'y
- 2) Tighten the 1 Screw ①.
- 3) Match the Plate Ground Deck **2** to the Hole of Base Main.
- 4) Tighten the other 2 Screws **1**.

#### Note:

- 1) Take care not to touch the Cylinder Ass'y **3** and the tape guide post at reinstalling.
- 2) When reinstalling, Don't push down too much on Screw Driver.

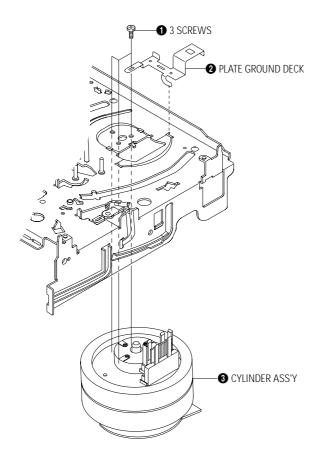


Fig. 4-34 Plate Ground Deck, Cylinder Ass'y Removal

#### 4-3-24 Belt Pulley Removal

1) Remove the Belt Pulley **1**.

**Note**: Take extreme care not to get grease on Belt Pulley **1** at assembling or reassembling.

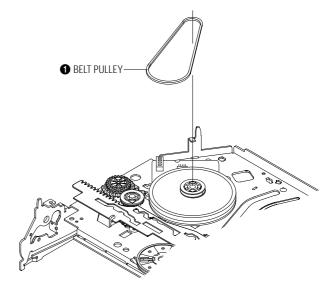


Fig. 4-35 Belt Pulley Removal

## 4-3-25 Level Head Cleaner Ass'y Removal (Optional)

- 1) Release the Hook **1**.
- 2) Lift the Lever Head Cleaner Ass'y 2.

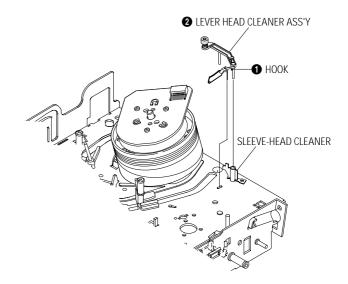


Fig. 4-36 Level Head Cleaner Ass'y Removal

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## 4-3-26 Damper Capstan, Motor Capstan Ass'y Removal

- 1) Remove the Damper Capstan **1** in the direction of arrow.
- 2) Remove the 3 Screws **2**.
- 3) Remove the Motor Capstan Ass'y 3.

#### Assembly:

- 1) Match the 3 holes of Motor Capstan Ass'y 3 to the 3 holes of Main Base. Be careful not to drop or knock the Motor Capstan Ass'y 3.
- 2) Tighten the 3 Screws **2** in the direction of arrow as shown detail drawing.
- 3) Assemble the Damper Capstan **1**.

**Note**: After tightening screws, check if there is gap between the head of screws and the top side of Main Base. There should have no gap between the head of screws and the top side of Main Base. After reinstalling, adjusting the tape transport system again.

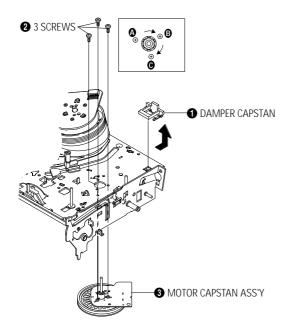


Fig. 4-37 Damper Capstan, Motor Capstan Ass'y Removal

## 4-3-27 How to Eject the Cassette Tape (If the unit does not operate on condition that is inserted into housing ass'y)

Turn the Gear worm ① clockwise with screw driver.(Refer to arrow)
 (Other method: Remove the Screw of Motor Load Ass'y, Separate the Motor Load Ass'y)

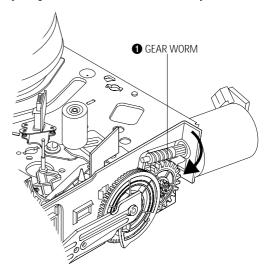


Fig. 4-38

- 2) When Slider S,T are approched in the position of unloading, rotate holder Clutch counterclockwise after inserting screw driver in the hole of frame's bottom in order to wind the unwinded tape. (Refer to Fig. 4-39)
  - (If you rotate Gear Worm ① continuously when tape is in state of unwinding, you may cause a tape contamination by grease and tape damage. Be sure to wind the unwinded tape in the state of set horizently.)
- 3) Rotate Gear Worm ① clockwise using screw driver again up to the state of eject mode and then pick out the tape.(Refer to Fig. 4-38)

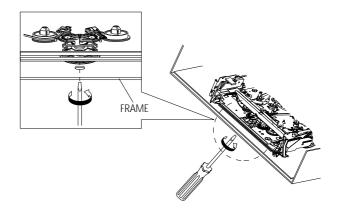


Fig. 4-39

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#### 4-4 The table of cleaning, Lubrication and replacement time about principal parts

- 1) The replacement time of parts is not life of parts.
- 2) The table 4-1 is that the VCR Set is in normal condition (normal temperature, normal humidity). The checking period may be changed owing to the condition of use, runtime and environmental conditions.
- 3) Life of the Cylinder Ass'y is depend on the condition of use.
- 4) See exploded view for location of each parts.

<Table 4-1>

*	Parts Name		Checking Period								Remark		
	raits ivaille	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	Remark	
T A P E P A T H S Y S T	POST TENSION	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	- To clean the parts, use patch and	
	SLANT POST S, T	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	alcohol (solvent).	
	#8 GUIDE SHAFT	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	- After cleaning, use the video tape	
	CAPSTAN SHAFT	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	after alcohol is gone away com-	
	#9 GUIDE POST	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	pletely.	
	#3 GUIDE POST	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	11/55 503	
	GUIDE ROLLER S, T	Δ	Δ	Δ	0	0	0	0	0	0	0	- We recommend to use oil [EP-50] or solvent.	
	CYLINDER ASS'Y	Δ	0	0	0	0	0	0	0	0	0		
	FE HEAD	Δ	Δ	Δ	0	0	0	0	0	0	0	- One or two drops of oil should be	
	ACE HEAD	Δ	0	0	0	0	0	0	0	0	0	applied after	
	PINCH ROLLER	Δ	0	0	0	0	0	0	0	0	0	cleaning with alcohol.	
	POST REEL S, T		•		•		•		•		•	- Periodic time of applying oil (Apply	
E	SLEEVE TENSION		•		•		•		•		•	oil after cleaning)  - The excessive applying oil may be the cause of malfunction.	
M	POST CENTER		•		•		•		•		•		
	LEVER IDLE BOSS (2Point)		•		•		•		•		•		
D S R Y S V T N M	CAPSTAN MOTOR PULLEY	Δ	Δ	Δ	Δ	Δ	0	0	0	0	0		
	BELT PULLEY				0	0	0	0	0	0	0		
	HOLDER CLUTCH ASS'Y	Δ	0	0	0	0	0	0	0	0	0		
	GEAR CENTER ASS'Y		0	0	0	0	0	0	0	0	0		
	GEAR IDLE (2Point)		0	0	0	0	0	0	0	0	0		
G	LOADING MOTOR		0	0	0	0	0	0	0	0	0		
SYSTED BRAKE	BAND BRAKE ASS'Y		0	0	0	0	0	0	0	0	0		
E M	BRAKE T ASS'Y		0	0	0	0	0	0	0	0	0		

 $\Delta$ : Cleaning O: Check and replacement in necessary lacktriangle: Add Oil

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## **MEMO**

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#### 5. Alignment and Adjustment

#### 5-1 Reference

- 1) X-Point (Tracking center) adjustment, "Head switching adjustment" and "NVRAM option setting" can be adjusted with remote control.
- 2) When replacing the Micom (IC601) and NVRAM (IC605; EEPROM) be sure to adjust the "Head switching adjustment" and "NVRAM option setting".
- 3) When replacing the cylinder ass'y, be sure to adjust the "X-Point" and "Head switching adjustment".
- 4) Remote control used for same chassis as a accessory is available for all adjustments.
- 5) How to adjustment.
  - Press the "SW703" button on Main PCB to set the adjustment mode.
  - If the corresponding adjustment button is pressed, the adjustment is performed automatically.
  - If the adjustment is completed, be sure to turn the power off.

#### 5-1-1 Location of adjustment button of remote control

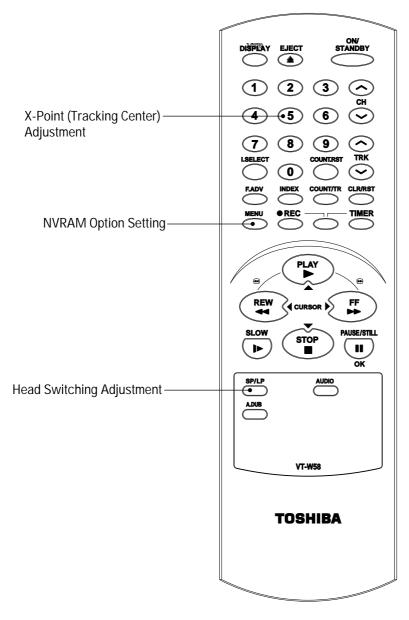
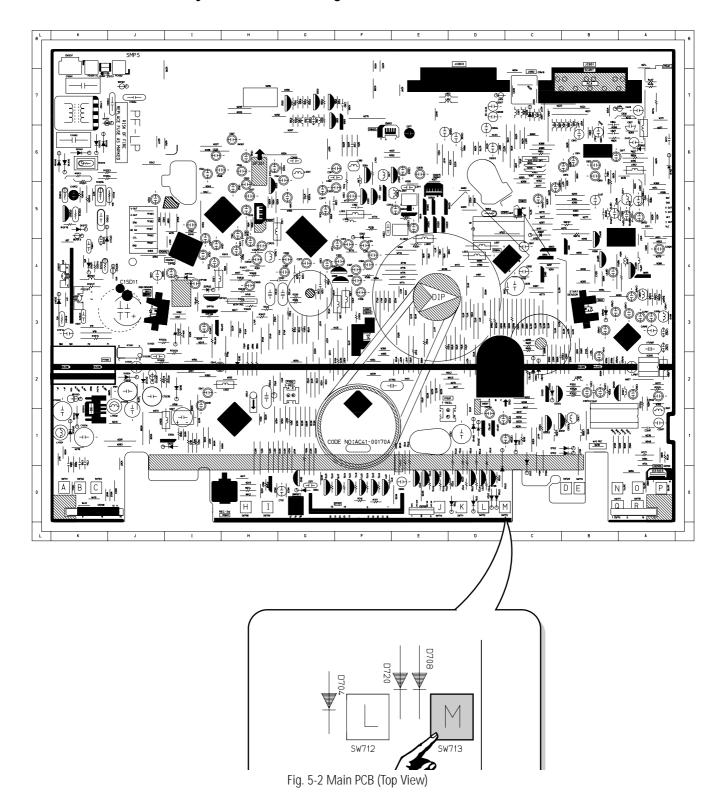


Fig. 5-1

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## 5-1-2 SW703 location for adjustment mode setting



5-2 Toshiba

#### 5-2 Mechanical Adjustment

#### 5-2-1 Tape Transport System and Adjustment Locations

The tape transport system has been adjusted precisely in the factory. Alignment is not necessary except for the following :

- 1) Noise observed on the screen.
- 2) Tape damage.
- 3) Parts replacement in the tape transport system.

Lower flange height of tape guide is used as the reference for the transport adjustment.

To maintain the height of the tape guide and prevent damage, do not apply excessive force onto the main base.

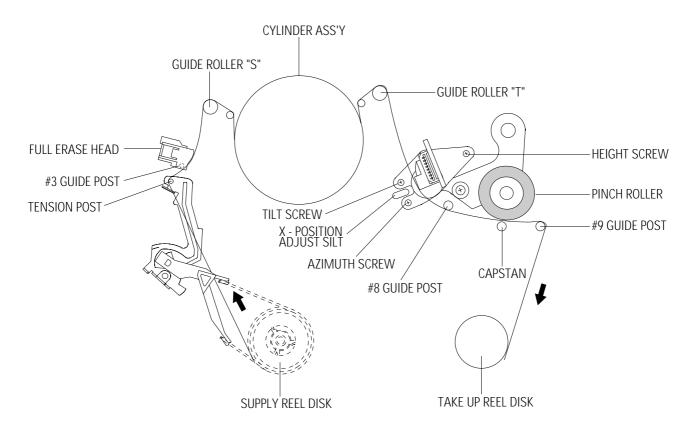


Fig. 5-3 Location of Tape Transport Adjustment

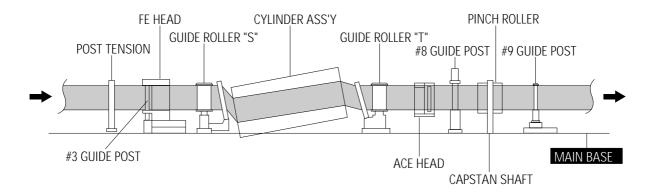


Fig. 5-4 Tape Travel Diagram

Toshiba 5-3

#### 5-2-2 Tape Transport System Adjustment

When parts are replaced, perform the required adjustments by referring to precedures for the tape transport system. If there are any changes to the tape path, first run a T-120 tape and make sure excessive tape wrinkle does not occur at the tape guides.

- 1) If tape wrinkle is observed at the guide roller S, T, turn the guide roller S, T until wrinkle disappears.
- 2) If the tape wrinkle is still observed at the tape guide, perform the tilt adjustment of the ACE head.

#### (1) ACE Head Assembly Adjustment

**Test point**: TP601 (Control Pulse)

TP602 (H'D S/W -Trigger)

TP301 (Envelope)

TP302 (Audio output)

TP303 (Video output)

**Test tape:** ST-N1

BLANK TAPE: T-160

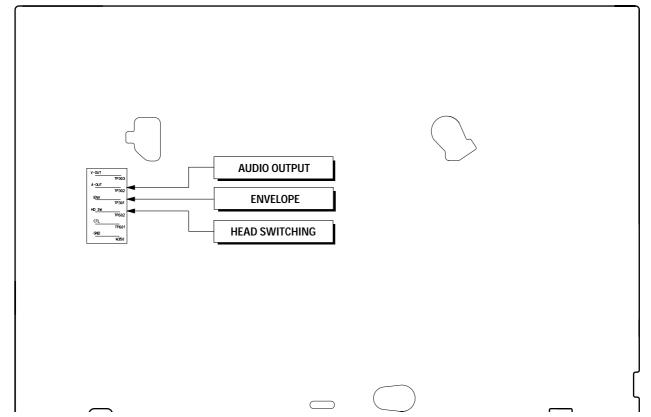


Fig. 5-5 Location of Test point (Main PCB-Top View)

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#### a. ACE HEAD HEIGHT ADJUSTMENT

- Run the alignment tape (Color bar) in the playback mode.
- 2) Observe surface of the audio head using a dental mirror.
- 3) Turn screw (C) clockwise or counterclockwise until the gap of lower tape edge and the lower edge of the control head is about 0.25mm. (Refer to Fig. 5-6 and 5-7)

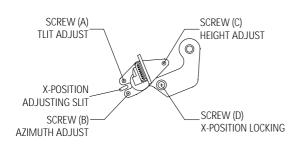


Fig. 5-6 Location of ACE Head Adjustment Screw

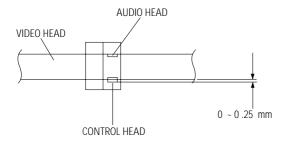


Fig. 5-7 ACE Head Height Adjustment

#### b. ACE HEAD TILT ADJUSTMENT

- 1) Playback a blank tape and observe the position of the tape at the lower flange of tape guide.
- 2) Confirm that there is no curl or wrinkle at the lower flange of tape guide as shown in Fig. 5-8 (B).
- 3) If a curl or wrinkle of the tape occurrs, slightly turn the screw (A) tilt adjust on the ACE head ass'y.
- 4) Reconfirm the ACE head height.

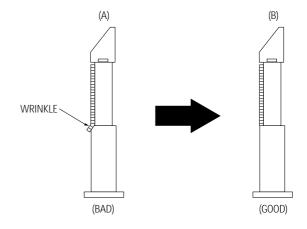


Fig. 5-8 Tape Guide Check

#### c. AUDIO AZIMUTH ADJUSTMENT

- 1) Load alignment tape (Mono scope) and playback the 6KHz signal.
- 2) Connect channel-1 scope probe to audio output test point (TP302).
- 3) Adjust screw (B) to achieve maximum audio level. (See Fig. 5-6)

#### d. ACE HEAD POSITION (X-POINT) ADJUSTMENT

- 1) Playback the alignment tape (Color bar).
- 2) Press the "SW703" button on Main PCB to set the adjustment mode. (See Fig. 5-2)
- 3) Press the "5" button of remote control then adjustment is operated automatically. (See Fig. 5-1)
- 4) Connect the CH-1 probe to TP303 (Envelope) the CH-2 probe to TP601 (H'D switching pulse) and then trigger to CH-1.
- 5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.
- 6) Turn the Power off.

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#### (2) Linearity adjustment (Guide roller S, T adjustment)

- 1) Playback the Mono Scope alignment tape (SP mode).
- 2) Observe the video envelope signal on an oscilloscope (triggered by the video switching pulse).
- 3) Make sure the video envelope waveform (at its minimum) meets the specification shown in Fig. 5-9.

If it does not, adjust as follows:

#### Note:

- a=Maximum output of the video RF envelope.
- b=Minimum output of the video RF envelope at the entrance side.
- c=Minimum output of the video RF envelope at the center point.
- d=Maximum output of the video RF envelope at the exit side.
- 4) If the section A in Fig. 5-10 does not meet the specification, adjust the guide roller S up or down.
- 5) If the section B in Fig. 5-10 does not meet the specification, adjust the guide roller T up or down.

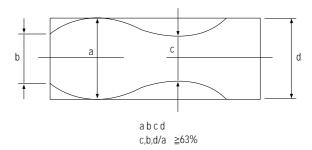


Fig. 5-9 Envelope Waveform Adjustment

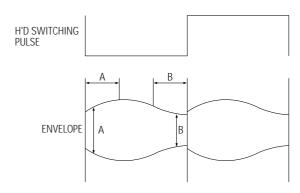


Fig. 5-10 Adjustment Points

- 6) Play back the Mono Scope alignment tape (SP mode).
- 7) Connect an oscilloscope CH-1 to the Envelope and CH-2 to the H'D SW Pulse for triggering.
- 8) Turn the guide roller heads with a flat head () driver to obtain a flat video RF envelope as shown in Fig. 5-11.

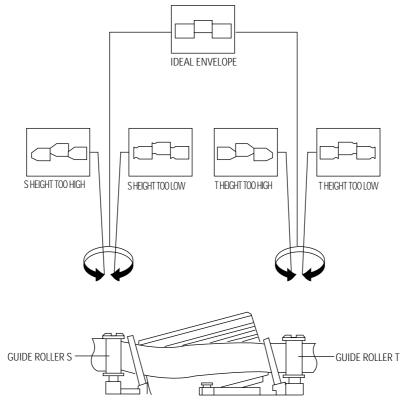


Fig. 5-11 Guide Roller S, T Height Adjustment

5-6 Toshiba

#### (3) Check Transitional Operation from RPS to Play

Check transition from RPS mode to play mode: Using a pre-recorded SP tape, make sure the entry side of envelope comes to an appropriate steady state within 3 seconds (as shown in Fig. 5-12).

If the envelope waveform does not reach specified peak-to peak amplitude within 3 seconds, adjust as follows:

- Make sure there is no gap between the supply roller lower flange and the tape.
   If there is a gap, adjust the supply guide roller again.
- 2) Change operation mode from the RPS to the play mode (again) and make sure the entry side of envelope rises within 3 second.

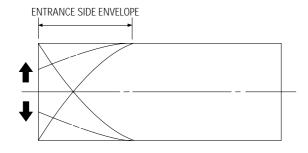


Fig. 5-12 Video Envelope Rising when Operation mode Changes from RPS to Play Mode

#### (4) Envelope Check

- 1) Make recordings on T-120 (E-120) and T-160 (E-180) tape.
  - Make sure the playback output envelope meets the specification as shown in Fig. 5-13.
- 2) Play back a self recorded tape (recording made on the unit using with T-120 (E-120).
  - The video envelope should meet the specification as shown in Fig. 5-13.
  - In SP mode, (A) should equal (B).
  - If the head gap is wide, upper cylinder should be checked.

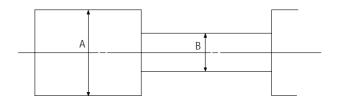


Fig. 5-13 Envelope Output and Output Level

#### (5) Tape Wrinkle Check

- 1) Run the T-160 (E-180) tape in the playback, FPS, RPS and Pause modes and observe tape wrinkle at each guide.
- 2) If excessive tape wrinkle is observed, perform the following adjustments in Playback mode :
- ◆ Tape wrinkle at the guide roller S, T section : Linearity adjustment.
- ◆ Tape wrinkle at tape guide flange : ACE head assembly coarse adjustment.

#### 5-2-3 Reel Torue

- 1) The rotation of the capstan motor causes the Holder Clutch Ass'y to rotate through the Belt Pulley.
- 2) The spring wrap PLAY/REV of holder clutch ass'y drives the disk reel S, T through gear idle by rotation of gear center ass'y.
- 3) Brake is operated by slider cam at FF/REW mode.
- 4) Transportation of accurate driving force is done by gears. (Gear Center Ass'y)

**Note:** If the spec. does not meet the followings specifications, replace the holder clutch ass'y and then recheck.

<Table 5-1>

MODE	TORQUE g/cm	GAUGE
PB	42 ± 11	Cassette Torquemeter
RPS	145 ± 30	Cassette Torquemeter

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#### 5-3 Head Switching Point Adjustment

- 1) Playback the alignment tape.
- 2) Press the "SW703" button on Main PCB with pincers to set the adjustment mode. (See Fig. 5-2)
- 3) Press the "SP/LP" button of remote control then adjustment is operated automatically. (See Fig. 5-1)
- 4) Turn the Power off.

#### 5-4 NVRAM Option Setting

- 1) NVRAM Option is adjusted at production line basically.
- 2) In case Micom (IC601) and NVRAM (IC605; EEPROM) is replaced, be sure to set the corresponding option number of the repaired model. (If the option is not set, the unit is not operated.)
- 1) Press the "SW703" button on Main PCB to set the adjustment mode. (See Fig. 5-2)
- 2) Press the "MENU" button on the remote control about 5 seconds then option setting display is appeared. (See Fig. 5-14)
- 3) Select the option number (See Table 5-2) of corresponding model with "CURSOR" button on the remote control.
- 4) If selecting the option number is completed, press the "OK" button of remote control. (If "OK" button is pressed, the selected number is changes reversed color.; See Fig. 5-14)
- 5) Press the "MENU" button of remote control again to store the option number. ("PLEASE WAIT" is displayed for a second as shown Fig. 5-15 and this setting is completed.)
- 6) Turn the Power off.

```
01 \ 02 \ 03 \ 04 \ 05 \ 06 \ 07
                         08
              13
       11
          12
                  14 15
                         16
   18
       19
          20
              21
                  22 23
                         24
25
   26
       27
           28
              29
                  30
                     31
                         32
33
   34
       35
           36
              37
                  38
                     39
                         40
   42
      43
          44
              45
                 46 47
                         48
49
   50 51
           52
              53 54
                     55
                         56
          60
                  62
   58 59
              61
                     63
                         64
65 66 67 68 69 70
                     71
                         72
◆► CNG : OK SAVE : MENU
```

Fig. 5-14 Fig. 5-15

<Table 5-2>

	01	02	03	04	05	06	07	80	
	09	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	24	
	25	26	27	28	29	30	31	32	
	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	
	49	50	51	52	53	54	55	56	
	57	58	59	60	61	62	63	64	
	65	66	67	68	69	70	71	72	
-		<b>&gt;</b> <	PLI	EASI	E W/	\IT			
۳,	S								

V-F78 6, 7, 8, 9, 10, 15, 20, 22, 25, 27, 29, 33, 35, 39, 42, 45, 49, 50, 52, 53, 57, 60, 61, 64	MODEL	OPTION NUMBER
	V-E78	6, 7, 8, 9, 10, 15, 20, 22, 25, 27, 29, 33, 35, 39, 42, 45, 49, 50, 52, 53, 57, 60, 61, 64

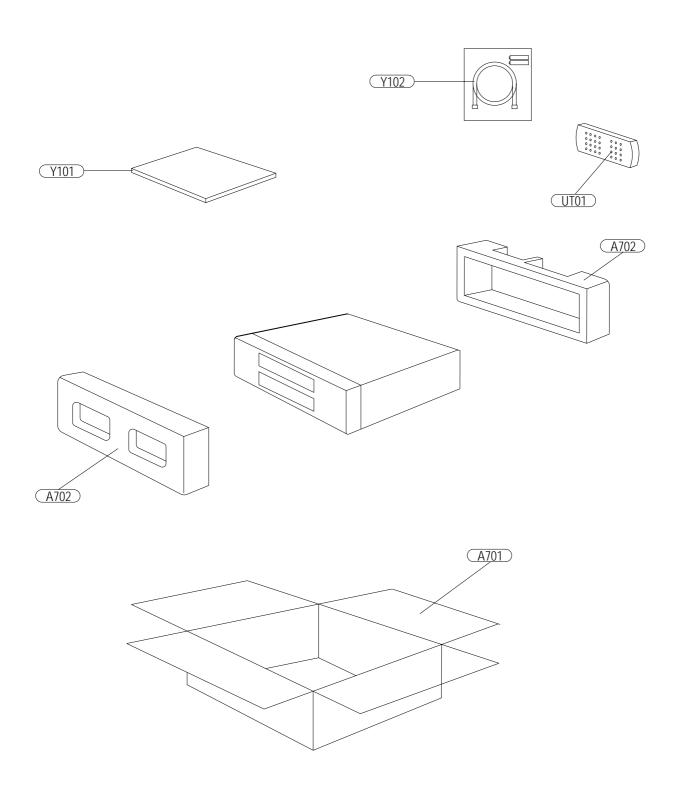
5-8 Toshiba

## 6. Exploded View

6-1	Packing Assembly	6-2
6-2	Instrument Assembly	6-3
6-3	Mechanical Parts (Top Side)	6-4
6-4	Mechanical Parts (Bottom Side)	6-5

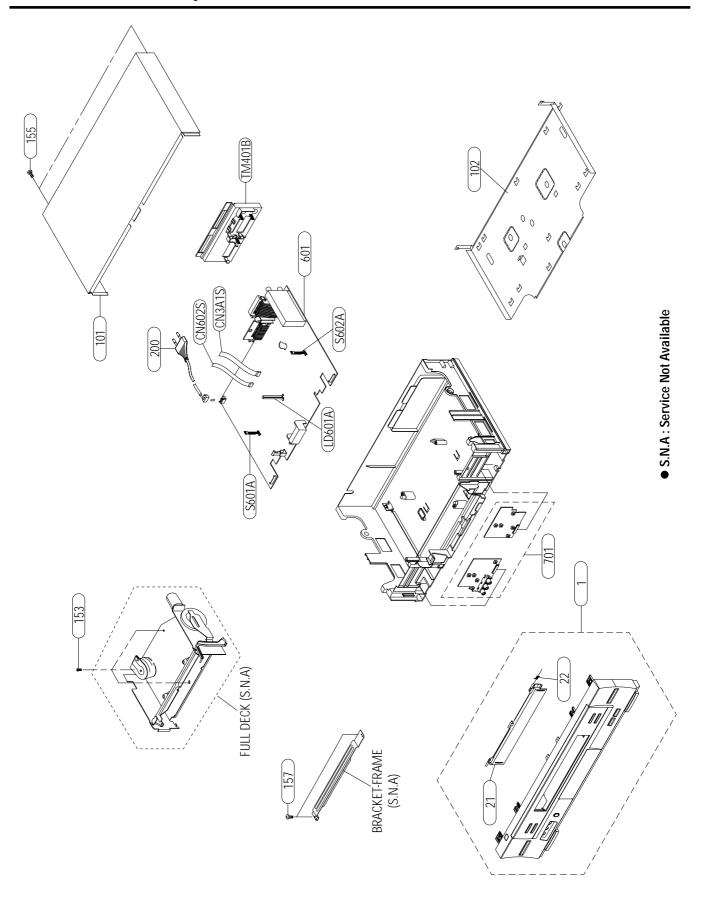
Toshiba 6-1

## 6-1 Packing Assembly



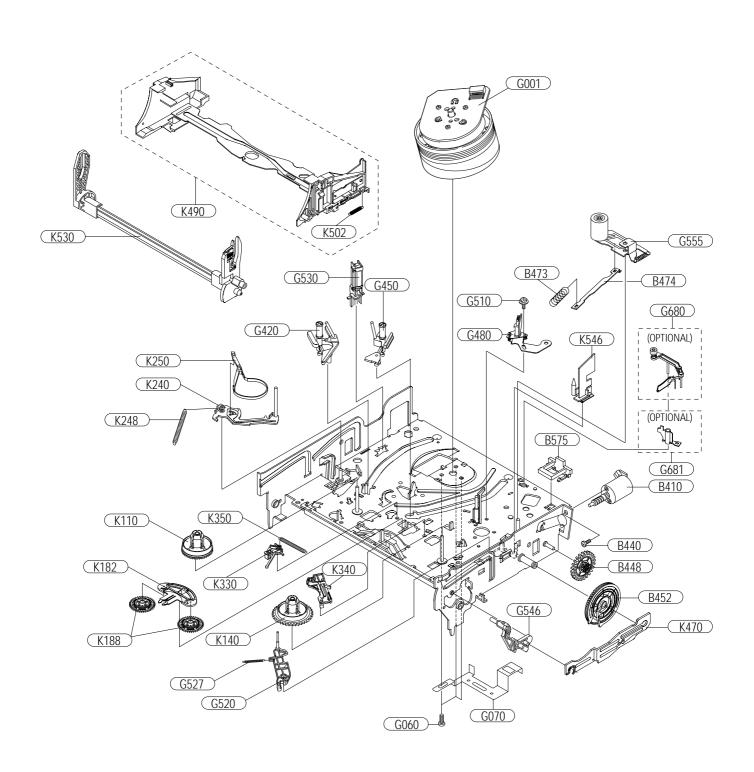
6-2 Toshiba

## 6-2 Instrument Assembly

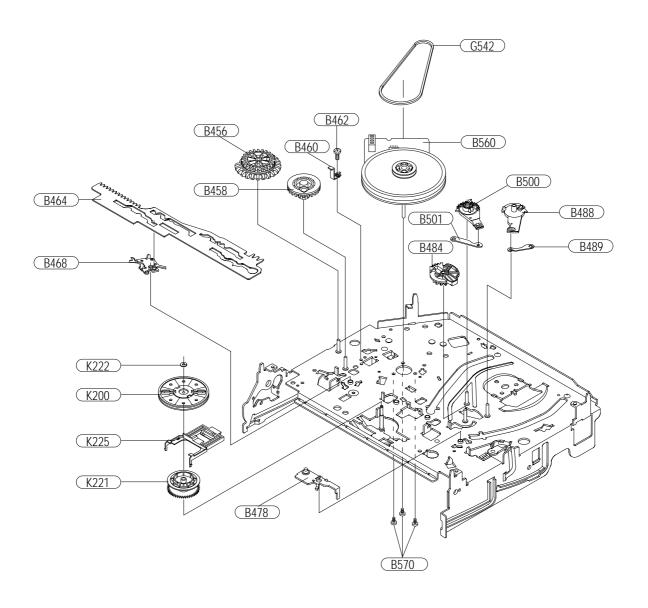


Toshiba 6-3

## 6-3 Mechanical Parts (Top Side)



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Toshiba 6-5

## **MEMO**

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## 7. Replacement Parts List

Loc.No.	TSB Parts No.	Reference No.	Description ; Specification	Remark
- PAC	KING PART	S -		
A701	BY634561	AC69-00187A	PACKING CASE;V-E78/TSB,SW2 YEL,-,-,501,3	
A702 UT01	BY730463 BY634442	AC69-00040A AC59-00039A	CUSHION-F/B;M-686,EPS,-,-,-,-	
Y101	BY634451	AC68-01219A	REMOCON-ASSY;V-W58,TSB,-,VS-T87014,-,-,- MANUAL USERS;V-E78,TSB,ENG,RUSIA,-,-,-,-	
Y102	BY634253	AC39-00017A	CABLE-ETC-RF(PAL);-,MALE/FEMALE,1200MM,R	
- INST	RUMENT F	PARTS -		
1	BY634562	AC97-01268U	ASSY-PANEL FRONT;HIPS94HB,V-E78/TSB,SILV	
21	BY634553	AC64-00451M	DOOR-CASSETTE;V-E78/TSB,ABS94HB,-,BLK,-,	
22	BY730093	AC61-62032A	SPRING-MASK;X-9,-,SUS,-,4.4,-,SV-C130	
101 102	BY730808 BY730854	AC64-00590A AC63-00036A	CABINET-TOP;V-851,-,PCM(SECC),-,AN-211 COVER-BOTTOM;V-851,SECC,T;0.5,-,SECC T0.	
153	70790218	AC60-12126A	SCREW-BH;-,BH,-,4*12,FE,FZY,-,-,-	
155	70790082	AC60-12134A	SCREW-TAP BH;-,BH,-,2-4X16,-,FE	
157	70790002	AC60-10063A	SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SWRCH18	
200	BY634124	AC39-10019A	POWER CORD;KKP-419C,H03VVH2-F,VDE/KEMA-K	
CN3A1S CN602S	BY634415 BY634118	3809-001206 3809-001111	CABLE-FLAT;30V,-20to+80C,140mm,6P,1.25mm CABLE-FLAT;30V,80C,130mm,7P,1.25mm,UL289	
LD601A	BY730082	AC61-21009A	HOLDER-LED;-,POM(M90-44),-,BLK,-,X-9	
S601A	BY730080	AC61-21008A	HOLDER-SENSOR;-,POM(M90-44),-,BLK,-,X-9	
S602A	BY730080	AC61-21008A	HOLDER-SENSOR;-,POM(M90-44),-,BLK,-,X-9	
TM401B	BY730797	AC61-00147A	CHASSIS-ASSY;V-E58,HIPS94HB(MOLD),T2,-,-	
- MEC	HANICAL F	PARTS -		
B410	BY730718	AC31-00012A	MOTOR-LOADING ASSY;-,TS-10,-,-,-,-	
B440	BY730072	AC60-10515A	SCREW-MACHINE;-,PH,+,-,M3,L3,ZPC,-,YEL	
B448	BY730743	AC66-00008A	GEAR-WORM WHEEL;TS-10,POM,0.8,40,-,NAT,3	
B452 B456	BY730745 BY730744	AC66-00011A AC66-00009A	GEAR-FL CAM;TS-10,POM,0.8,59,-,BLK,48.48 GEAR-JOINT 1;TS-10,POM,1.5,17.5(22),-,NA	
B458	BY730744	AC66-00012A	GEAR-JOINT 2;TS-10,POM,1.0,23,-,BLK,24.6	
B460	BY730851	AC61-00090A	BRACKET-GEAR;TS-10,0.8,-,-	
B462	BY730073	AC60-10517A	SCREW-TAP TITE;-,PH,+,-,M2.6,L5,ZPC,-,YE	
B464 B468	BY730749 BY730748	AC66-00019A AC66-00017A	SLIDER-CAM;TS-10,SECC E20/20,1.2,-,-,- LEVER-PINCH DRIVE;TS-10,SECC E20/20,1.0	
B473	BY730748	AC61-00105A	SPRING-PINCH DRIVE;TS-10,SUS304-WPB,-,-,	
B474	BY730244	AC61-30180A	PLATE-JOINT;-,SECC20/20,T0.8,-,X-9	
B478	BY730747	AC66-00016A	LEVER-TENSION DRIVE;TS-10,SECC E20/20,1	
B484	BY730755	AC66-00030A AC66-00023A	GEAR-LOADING DR. ASS'Y;TS-10,POM+SWPB,-,	
B488 B489	BY730753 BY730751	AC66-00023A AC66-00021A	LEVER-S LOADING;TS-10,POM,-,-,-,-,NAT,- LINK-LOADING S;TS-10,SECC E20/20,0.8,-,-	
B500	BY730754	AC66-00024A	LEVER-T LOADING;TS-10,POM,-,-,-,-,NAT,-	
B501	BY730752	AC66-00022A	LINK-LOADING T;TS-10,SECC E20/20,0.8,-,-	
B560	BY730717	AC31-00010A	MOTOR-CAPSTAN;-,SANKYO,-,-	
B570 B575	BY730071 BY730721	AC60-10514A AC47-00002A	SCREW-CAPSTAN;-,PH,+,M2.6,L6,- DAMPER-CAPSTAN:TS-10.POMBLACK	
G001	BY730721 BY730766	AC97-01205A	ASSY-CYLINDER;PAL,CTS10,6HD	
G060	BY634416	6006-001092	SCREW-ASS'Y MACH;WS,PH,+,M3.0,L6.0,ZPC(Y	
G070	BY730728	AC61-00161A	PLATE-GROUND DECK;TS-10,SPTE,T0.3,-	
G420	BY730124	AC66-80142A	SLIDER-SUPPLY ASSY;-,X-9(TS),-,-,-,X-9	
G450 G480	BY730123 BY730848	AC66-80141A AC33-00009B	SLIDER-TAKE UP ASSY;-,X-9(TS),-,-,-,X-9 HEAD-ACE ASS'Y;-,PPS - TDK,TS-10 ,-,-	
G510	BY730479	6006-001075	SCREW-ASS'Y TAPT;WSP,PH,+,M2.6,L5.0,ZPC(	
G520	BY730757	AC66-00033A	LEVER-#9 GUIDE ASS'Y;TS-10,-,-,-,-,-	
G527	BY730088	AC61-60553A	SPRING-#9 GUIDE;-,ES,SUS304-WPB,OD3.1,0.	
G530	BY730719	AC33-00006A	HEAD-FE;-,-,VTR-1 * 2ERS11-144,-,-	
G542 G546	BY730122 BY730741	AC66-60051A AC66-00005A	BELT-PULLEY;-,5CM-70,2 * 2,-,71.3,-,X-9 LEVER-FL DOOR;TS-10,POM,-,-,-,-,NAT,-	
G555	BY730756	AC66-00032A	LEVER-PL DOOR, 13-10, POIN, -, -, -, -, NAI, - LEVER-UNIT PINCH ASS'Y; TS-10, -, -, -, -, -	
GP301	BY730731	AC63-00043A	SHIELD CASE-GROUND PCB;SV-643F,STPE,T0.3	
HS01	BY730277	AC62-30100A	HEAT SINK-POWER;-,3516ET,-,T0.5,-,-,-,SV	
HS02	70796133	AC62-32001B	HEAT SINK-MAIN;A1050R,-,T22.5,-,W15,L26.	
K110 K140	BY730102 BY730103	AC66-10267A AC66-10268A	REEL-DISK S;X-9,POM,-,-,-,-,-,- REEL-DISK T;X-9,POM,-,-,-,-,-	
K140 K182	BY730103 BY730112	AC66-30524A	LEVER-IDLER;-,POM,-,-,-,-,-	
K188	BY730760	AC66-00039A	GEAR-IDLE;TS-10,PET K3372,0.5,-,-,NTR,28	
K200	BY730084	AC61-21012A	HOLDER-CLUTCH ASSY;-,-,-,-,X-9	
K221	BY730111	AC66-20581A	GEAR-CENTER ASSY;-,POM,M=0.5,-,HIGHT T.,	
K222	BY730076	AC60-30306A	WASHER-SLIT;-,-,ID2.1,OD5.0,T0.5,-,POLYS	

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Loc.No.	TSB Parts No.	Reference No.	Description ; Specification	Remark
K225	BY730742	AC66-00006A	LEVER-UP DOWN;TS-10,POM,-,-,-,NAT,-	
K240	BY730759	AC66-00035A	LEVER-TENSION ASS'Y;TS-10,SECC E20/20+SU	
K248	BY730725	AC61-00107A	SPRING-TENSION LEVER;TS-10,SUS304-WPB,-,	
K250 K330	BY730762 BY730121	AC69-00104A AC66-30550A	BAND-BRAKE ASS'Y;TS-10,-,-,-,-,- LEVER-S.BRAKE ASSY;-,POM+SUS,-,-,-,X-9	
K340	BY730121	AC66-30549A	LEVER-T.BRAKE ASSY;-,POM+SUS,-,-,-,X-9	
K350	BY730724	AC61-00106A	SPRING-BRAKE;TS-10,SUS304-WPB,-,-,-,-,	
K470	BY730750	AC66-00020A	SLIDER-FL DRIVE;TS-10,SECC E20/20,1.0,-,	
K490	BY730726	AC61-00120A	HOLDER-FL CASS. ASS'Y;TS-10,-,-,-	
K502	BY730091	AC61-60561A	SPRING-FL.LEVER-LR;-,ES,SUS304 WPB,PI2.7	
K530	BY730758	AC66-00034A	LEVER-FL ARM ASS'Y;TS-10,-,-,-,-,-	
K546	BY730086	AC61-50658A	GUIDE-CASS. DOOR;X-9,POM,-,NTR,-,-	
SC01	22797145	6003-000283	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(YEL),SM20	
SC02	22797145	6003-000283	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(YEL),SM20	
- ELEC	CTRICAL PA	RTS -		
601	BY630168	AC92-00808H	ASSY PCB-MAIN; V-E78, HIFI, FREE, ME. ASIA	
701	BY630170	AC94-00090C	ASSY-FUNCTION;V-E78,F/AV,01TSB-PAL	
< INTEG	RATED CIRCUIT	S >		
IC1SF1	BY631087	1203-001802	IC-PWM CONTROLLER;STR-G6551,TO-220F,5P,-	
IC1SI1	BY530004	0604-001028	PHOTO-COUPLER;TR,50-600%,250mW,DIP-4,ST	$\triangle$
IC1SS1	BY631008	AC14-12006D	IC;KA431Z,TO-92,TAPING	7.3
IC301	BY631102	1204-001648	IC-VIDEO PROCESS;LA71578M,QFP,100P,-,PLA	
IC4N01	BY631149	1204-001765	IC-AUDIO PROCESSOR; MSP3417D (PQFP), PQFP,4	
IC501	BY631023	1204-001479	IC-AUDIO PROCESSOR;LA72634AM,QFP,64P,400	
IC601	BY631159	AC09-00220A	IC MICOM;uPD784927GC-504-8EU,V-711F,100	
IC604	70795269	AC14-12006C	IC;KA7533,DIP,-	
IC605 IC608	BY631069 BY631059	1103-001150	IC-EEPROM;524C80D81,8KBit,DIP,8P,300MIL,	
IC608	BY631126	1203-000515 1003-001318	IC-VOL. DETECTOR;7042,TO-92,3P,177MIL,PL IC-MOTOR DRIVER;LB11880,DIP,30P,417MIL,-	
IC6P01	BY631150	AC09-00077A	IC-OSD;LC74758JM-9779,LC74758JM-9779,	
< TRANS	SISTORS >			
PT601	DAE3000E	0604-001122	PHOTO-INTERRUPTER;TR,0.065%,150mW,DIP-4,	
PT601 PT602	BY530005 BY530005	0604-001122	PHOTO-INTERRUPTER;TR,0.065%,T50IIIW,DIP-4, PHOTO-INTERRUPTER;TR,0.065%,150IIIW,DIP-4,	
Q1P101	70693265	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P102	70693265	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P103	70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q1P104	BY530044	0501-002268	TR-SMALL SIGNAL;STB1277,PNP,625mW,TO-92,	
Q1P105	70795137	0504-000116	TR-DIGITAL;KSR1001,NPN,300MW,4.7K/4.7K,T	
Q302	70795134	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q303	70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q304	70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q308 Q309	70795136 70795136	0501-000398 0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3A01	70795134	0501-000370	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3A03	70795142	0501-000363	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
Q3A04	70795142	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
Q3A05	70795142	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
Q3A06	70795134	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3D01	70795142	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
Q3D02	70693084	0504-000142	TR-DIGITAL; KSR2001, PNP, 300MW, 4.7K/4.7K, T	
Q3D03	BY530014	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO-	
Q602 Q6P01	70795136 70795134	0501-000398 0501-000303	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T TR-SMALL SIGNAL:KSA733,PNP.250mW,TO-92.T	
Q6P01	70795134	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q6P03	70795134	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q701	70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q702	70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q703	70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q704	70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q705	70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q706 Q707	70795136 70795136	0501-000398 0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q707 Q708	70795136 70795136	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,T0-92,T	
Q708 Q711	70795818	0501-000398	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q711	70795818	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,T0-92	
Q713	70795818	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q714	70795818	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q715	70795818	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
Q716	70795818	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92	
S601	BY530003	0603-001011	PHOTO-TR;NPN,35V,6V,50mA,75mW,BK	
S602	BY530003	0603-001011	PHOTO-TR;NPN,35V,6V,50mA,75mW,BK	

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Loc.No.	TSB Parts No.	Reference No.	Description ; Specification	Remark
< DIODE	'S >			
D1P101	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1P103	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1SD11	BY430011	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SD31 D1SF05	BY430011 BY430012	0402-001195 0402-001196	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D13F03	BY430012	0402-001195	DIODE-RECTIFIER;F1T3,000V,TA,T3-1,TP	
D1SF12	BY430011	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS02	BY430012	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS03	BY430012	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS04	BY430012	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS11	BY430047	0402-000012	DIODE-RECTIFIER;UF4007,1KV,1A,DO-41,TP	
D1SS31 D1SS32	BY430011 BY430010	0402-001195 0402-001194	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP DIODE-RECTIFIER;UG2D,200V,2A,DO-204AC,TP	
D13332	BY430010	0404-001097	DIODE-SCHOTTKY;SG45,45V,7500mA,TO-220A,B	
D302	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D4N01	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D4N02	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D601	70796385	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D602	70796385	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D603	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D604 D605	70795150 70796385	0401-000101 0402-000127	DIODE-SWITCHING;1N4148,100V,200mA,DO-35, DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D603 D612	70796385	0402-000127	DIODE-RECTIFIER, IN4002, 100V, IA, DO-41, IP DIODE-RECTIFIER; 1N4002, 100V, 1A, DO-41, TP	
D701	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D702	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D703	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D704	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D705	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D708 D720	70795150 70795150	0401-000101 0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35, DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D720 D805	70795150	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,DO-35,	
LD601	BY430016	0601-000517	LED-IR;RECTANGULA,4x6.0mm,75mW,6V,950	
ZD1P02	BY430005	0403-000717	DIODE-ZENER;MTZJ5.1B,5.1V,4.94-5.2V,500m	
ZD1P03	BY430013	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
ZD401	70795272	0403-000390	DIODE-ZENER;UZP33B,33V,31.4-34.6V,1W,DO-	
ZD802	BY430015	0403-001211	DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D	
< INDUC	CTORS >			
BD1SD1	70795644	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-	
BD1SF2	70795644	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-	
BD1SF3	70795644	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-	
BD1SR1	BY330019	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
BD1SS2	70795644	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-	
BD1SS3 FL3A01	70795644 BY330006	AC27-92001M AC27-80100C	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,- COIL-OSC;7mm,2.4mH,-	
FL3D01	BY330055	AC27-80100C AC27-82001C	COIL-BIAS OSC;B02,W(TOKO)VX1850,-	
L1SS02	BY634272	AC29-00002A	FILTER LINE NOISE;-,30mH,-,-,BLF-2116	$\triangle$
L1SS31	70796213	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1SS32	70796213	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L301	70795841	2701-000206	INDUCTOR-AXIAL;56uH,5%,2.4x3.4mm	
L302	BY330009	2701-000002 2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L304 L306	BY330009 70796361	2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;120uH,5%,2.4x3.4mm	
L310	70796003	2702-000117	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L385	70796160	2702-000149	INDUCTOR-RADIAL;330uH,5%,6x6.4mm	
L3A01	70795171	2702-000120	INDUCTOR-RADIAL;15mH,5%,6.2x7.4mm	
L3A02	70796003	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L3A03	70796003	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L3D01 L401	BY330009 BY330009	2701-000002 2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L401 L402	70796003	2702-000106	INDUCTOR-RADIAL;100uH,10%,4.2x7.4mm	
L4N01	BY330066	2702-000160	INDUCTOR-RADIAL;4.7uH,10%,6x6.4mm	
L4N02	70796003	2702-000106	INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm	
L4N03	BY330066	2702-000160	INDUCTOR-RADIAL;4.7uH,10%,6x6.4mm	
L4N04	D)/000010	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
L502	BY330019	2701 22222	INIDITOD AVIAL 100. LL 1007 4 0 0 0	
	BY330009	2701-000002	INDUCTOR-AXIAL:100uH,10%,4.2x9.8mm	
L601	BY330009 BY330009	2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L601 L602	BY330009 BY330009 BY330009	2701-000002 2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L601	BY330009 BY330009	2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L601 L602 L603	BY330009 BY330009 BY330009 BY330009	2701-000002 2701-000002 2701-000002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L601 L602 L603 L6P03 L6P04 L6P05	BY330009 BY330009 BY330009 BY330009 70795162 BY330054 BY330052	2701-000002 2701-000002 2701-000002 2701-000160 2701-000201 2701-000165	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;22uH,5%,2.4x3.4mm INDUCTOR-AXIAL;5.6uH,5%,2.4x3.4mm INDUCTOR-AXIAL;27uH,5%,2.4x3.4mm	
L601 L602 L603 L6P03 L6P04 L6P05 L802	BY330009 BY330009 BY330009 BY330009 70795162 BY330054 BY330052 BY330009	2701-00002 2701-00002 2701-00002 2701-000160 2701-000201 2701-000165 2701-00002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;22uH,5%,2.4x3.4mm INDUCTOR-AXIAL;5.6uH,5%,2.4x3.4mm INDUCTOR-AXIAL;27uH,5%,2.4x3.4mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
L601 L602 L603 L6P03 L6P04 L6P05 L802 L803	BY330009 BY330009 BY330009 BY330009 70795162 BY330054 BY330052 BY330009 BY330053	2701-00002 2701-00002 2701-00002 2701-000160 2701-000201 2701-000165 2701-00002 2701-000181	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;22uH,5%,2.4x3.4mm INDUCTOR-AXIAL;5.6uH,5%,2.4x3.4mm INDUCTOR-AXIAL;27uH,5%,2.4x3.4mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L601 L602 L603 L6P03 L6P04 L6P05 L802	BY330009 BY330009 BY330009 BY330009 70795162 BY330054 BY330052 BY330009	2701-00002 2701-00002 2701-00002 2701-000160 2701-000201 2701-000165 2701-00002	INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm INDUCTOR-AXIAL;22uH,5%,2.4x3.4mm INDUCTOR-AXIAL;5.6uH,5%,2.4x3.4mm INDUCTOR-AXIAL;27uH,5%,2.4x3.4mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	

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Loc.No.	TSB Parts No.	Reference No.	Description; Specification	Remark
L808	BY330053	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L809	BY330053	2701-000181	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm	
L810 W038	BY330053 BY330009	2701-000181 2701-000002	INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm	
< <b>CAPAC</b>		2701-000002	INDUCTOR-AAIAL, 1000H, 10 /6,4.2A7.0HIIII	
C1P102	BY130282	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C1P103	BY130042	2401-005107	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1P104	BY130136	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C1P105 C1P106	BY130282 BY130282	2401-003107 2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5 C-AL;47uF,20%,16V,GP,TP,5x7,5	
C1P108	BY130136	2401-003107	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C1SD03	BY130216	2201-000812	C-CERAMIC,DISC;2.2nF,20%,400V,Y5U,BK,12.	
C1SD04 C1SD11	BY130216 BY130181	2201-000812 2401-003303	C-CERAMIC,DISC;2.2nF,20%,400V,Y5U,BK,12. C-AL;82uF,20%,400V,GP,BK,22X30,10	
C1SD11	BY130226	2305-001029	C-AL,82ur,20%,400V,GP,BK,22X3U,10 C-FILM,MPEF;10nF,10%,630V,TP,12x9x12.5,5	
C1SD13	70795070	2201-000376	C-CERAMIC,DISC;0.22nF,5%,50V,SL,TP,6.3x3	
C1SF12	BY130290	2401-001200	C-AL;33uF,20%,50V,WT,TP,6.3x11,5	
C1SS01 C1SS02	BY130272 BY130272	2305-001021 2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13. C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	<u>^</u>
C1SS12	BY130258	2201-000129	C-CERAMIC,DISC;0.1nF,10%,1kV,Y5P,TP,7x4,	_
C1SS31	70795431	2401-000385	C-AL;10uF,20%,100V,GP,TP,6.3x11,5	
C1SS32 C1SS33	BY130187 BY130248	2401-003137 2401-003477	C-AL;330UF,20%,50V,WT,TP,10X16MM,5 C-AL;330UF,20%,25V,LZ,TP,10X12.5MM,	
C1SS34	BY130248	2401-003477	C-AL;330UF,20%,25V,LZ,TP,10X12.5MM,	
C1SS35	BY130339	2401-003480	C-AL;1000UF,20%,10V,LZ,TP,10X16MM,5	
C1SS36 C1SS39	BY130015 70796098	2401-001479 2301-000129	C-AL;470uF,20%,10V,GP,TP,-,- C-FILM,PEF;100nF,5%,50V,TP,10X9X4.3X5,5m	
C301	70795769	2401-001919	C-AL;2.2uF,20%,50V,-,TP,4x7mm,5	
C302	BY130024	2301-000283	C-FILM,PEF;47nF,5%,100V,TP,7.3X7X3.2X5,5	
C303 C304	BY130042 BY130154	2401-000598 2203-000683	C-AL;1uF,20%,50V,GP,TP,4x7,5 C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201	
C305	72531470	2203-000408	C-CERAMIC,CHIP;0.18nF,5%,50V,NP0,TP,2012	
C306	BY130031	2203-001721	C-CERAMIC,CHIP;360pF,5%,50V,NPO,TP,2012,	
C307 C308	BY130342 70796281	2203-000392 2203-000260	C-CERAMIC,CHIP;0.015nF,5%,50V,SL,TP,2012 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C309	BY130042	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C310	BY130273	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C311 C313	70699092 BY130167	2401-000918 2203-000444	C-AL;22uF,20%,16V,GP,-,6.3x7,5 C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-	
C314	BY130278	2401-001775	C-AL;470nF,20%,50V,GP,TP,4x7,5	
C315	BY130273	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C316 C318	BY130347 BY130150	2203-001064 2203-000192	C-CERAMIC,CHIP;56NF,10%,50V,NPO,TP,2012 C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
C320	BY130042	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C321	BY130273	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C322 C323	BY130042 70796281	2401-000598 2203-000260	C-AL;1uF,20%,50V,GP,TP,4x7,5 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C324	70796281	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C325	70795075	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C326 C327	BY130150 BY130282	2203-000192 2401-003107	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP, C-AL;47uF,20%,16V,GP,TP,5x7,5	
C328	70795075	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C329	70795075	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C330 C331	70795075 BY130282	2202-000797 2401-003107	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, C-AL;47uF,20%,16V,GP,TP,5x7,5	
C332	BY130027	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C333	BY130042	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C334 C335	BY130020 BY130042	2203-000989 2401-000598	C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012 C-AL;1uF,20%,50V,GP,TP,4x7,5	
C336	BY130042	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C337	70795974	2203-000609	C-CERAMIC, CHIP;22nF,10%,50V,X7R,TP,2012	
C338 C339	70796281 BY130020	2203-000260 2203-000989	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;47nF,10%,50V,X7R,TP,2012	
C340	70795974	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012	
C341	BY130282	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C342 C343	BY130150 BY130042	2203-000192 2401-000598	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP, C-AL;1uF,20%,50V,GP,TP,4x7,5	
C345	BY130348	2203-001088	C-CERAMIC,CHIP;0.005nF,0.25pF,50V,NP0,TP	
C346	BY130282	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C347 C348	BY130156 BY130156	2203-001077 2203-001077	C-CERAMIC,CHIP;0.056nF,5%,50V,NP0,TP,201 C-CERAMIC,CHIP;0.056nF,5%,50V,NP0,TP,201	
C349	BY130343	2203-000429	C-CERAMIC,CHIP;0.018nF,5%,50V,NP0,TP,201	
C350	70796281	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C360 C381	BY130273 70796281	2401-000414 2203-000260	C-AL;10uF,20%,16V,GP,TP,4x7,5 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
C385	BY130379	2203-000828	C-CERAMIC,CHIP;0.036nF,5%,50V,NP0,TP,201	
C390	BY130027	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	

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CSMON   PAYSON   PA	Loc.No.	TSB Parts No.	Reference No.	Description; Specification	Remark
CARD   7079626	C399	BY130150	2203-000192	C-CERAMIC.CHIP:100nF.+80-20%.50V.Y5V.TP.	
CAMAD		70795626			
CSAMD   POYAGEN   2001-8002640   C. CERAMICCHIP-1011-139-500/XFR, TP.2012   C. CERAMICCHIP-2017   C. CERAMIC					
CRAINED   PATROPHIC   2301-001014   C.FILM.PET-R.S.R.F.S.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.S.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.S.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.S.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.S.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.G.Smm   C.FILM.PET-R.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.S.R.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.A.F.SOV.PT.P.S.					
CARL   PRI 193075   200-00174   C-ERAMIC CHIP & Zir   10% (SOWXTR, TP.2012   CARL   THE PRI 195075					
CSA11					
CAM-12					
CASHA 7079-8316 2203-000023 C-CERAMIC.CHIP 126:F109.50VXTR.TP.2012 C CSTAMM.CHIP 126:F109.50VXTR.TP.2012 C CSTAMM.CHIP 106:F109.50VXTR.TP.2017 C CSTAMM.CHIP 226:F109.50VXTR.TP.2017 C C					
CABATE   70796281   2203-000260   C-CERAMIC,CHIP-1006,1009,500/XTR,TR,2012   CABATE   ST 100796626   AUTO-1003121   CABATE   CA		70796336	2203-000323		
CALL 17 #270 #270 #270 #270 #270 #270 #270 #27					
CALI 1006.20%   TOWN					
C3A02					
GAA21					
G3A22 PY130164 203-0000495 C-CERAMIC_CHIP-12nf; 10%_50XX7R_TP2012 G3A22 BY130177 2401 0011169 C. CERAMIC_CHIP-12nf; 10%_50XX7R_TP2012 G3A23 BY130170 220-000192 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3A24 BY130170 220-000193 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3A25 BY130180 2000192 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3A30 BY130024 2401 003107 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3A31 BY130180 2003-000192 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3A30 BY130024 2401 003107 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3B01 BY130024 2401 003107 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3B02 BY130024 2401 003107 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3B03 BY130024 2401 003107 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3B04 BY130174 2003-000090 C-CERAMIC_CHIP-10nf; -80-20%_50XYFSUTP. G3B05 70796781 2003-000090 C-CERAMIC_CHIP-10nf; -80-50XXFS, TP2012 C401 BY130028 2401 003107 C-CERAMIC_CHIP-10nf; -80-50XXFS, TP2012 C402 70799794 2203-000090 C-CERAMIC_CHIP-10nf; -80-50XXFS, TP2012 C403 BY130028 2401 003107 C-CERAMIC_CHIP-10nf; -80-50XXFS, TP2012 C404 BY130028 2401 003107 C-CERAMIC_CHIP-10nf; -80-50XXFS, TP2012 C405 BY130028 2401 003107 C-CERAMIC_CHIP-10nf; -80-50XXFS, TP2012 C406 70799715 220-000797 C-CERAMIC_CHIP-20nf; -80-50XXFS, TP2012 C407 BY130038 2401 003107 C-CERAMIC_CHIP-20nf; -80-50XXFS, TP2012 C408 BY130038 2401 003107 C-CERAMIC_CHIP-20nf; -80-50XXFS, TP2012 C409 BY130038 2401 003107 C-CERAMIC_CHIP-20nf; -80-50XXFS, TP2012 C400 BY130038 2401 0030046 C-CERAMIC_CHIP-20nf; -80-50XXFS, TP2012 C400 BY130038 2401 0030046 C-CERAMIC_CHIP-20nf; -80-50XXFS, TP2012 C400 BY130038 2401 0030046 C-CERAMIC_CHIP-20nf; -80-50XXFS					
C3A23   W130277   203-000199   C.CERAMIC.CHIP-10061-80-209-8-50V2SU.TP.					
C3A25   P0790902   2001-000192   CCERAMIC CHIP-1000F, 490-20%, 50V/YbV   P.	C3A22	70795971	2203-000199		
C3A279   R1930077   2020-200237   C-FERAMIC (IM-C-ADIA-I) LODGE (80-20%, 50V/VEV					
G3A30   BY130027   2020-002037   C-CERAMIC.MIC-AXIAL-100R BD-20%_50V/YBV   C3A331   BY130150   2030 00192   C-CERAMIC.CHIP-100R; 480-20%_50V/YSVTP   C3A331   BY130024   2031-002083   C-CERAMIC.CHIP-100R; 480-20%_50V/YSVTP   C3A3731-X28.5   C3D302   BY1300282   2031-002083   C-CERAMIC.CHIP-100R; 480-20%_50V/YSVTP   C3A3731-X28.5   C3D302   BY1300282   2031-002083   C-CERAMIC.CHIP-100R; 480-20%_50V/YSVTP   C3A3731-X28.5   C3A3304   BY130174   2033-00260   C-CERAMIC.CHIP-100R; 100%_50V/XR_TR-2012   C3D305   70796281   2033-00260   C-CERAMIC.CHIP-1078-1078-50V/XR_TR-2012   C3D304   BY130282   2041-003107   C-AL-4742-20%; 100VGPTPSVT_5   C4D41   BY130049   2041-002104   C-CERAMIC.CHIP-1078-1078-50V/XR_TR-2012   C4D41   BY130049   2041-002104   C-CERAMIC.CHIP-278-1108-50V/XR_TR-2012   C4D41   BY130282   2041-003106   C-AL-3742-20%-100VGPT-559-27mm   C4D41   BY130282   2041-003107   C-AL-4742-20%-100VGPT-557-5   C4D41   BY130282   2041-003107   C-AL-4742-20%-100VGPT-557-5   C4D41   BY130282   2041-003107   C-AL-4742-20%-100VGPT-557-5   C4D41   BY130281   2033-000142   C-CERAMIC.CHIP-1078-108-50V-XR_TR-2012   C4D41   BY130281   2033-000142   C-CERAMIC.CHIP-1078-108-20%_50V-XYR_TP-2012   C4D41   BY130281   2033-000142   C-CERAMIC.CHIP-1078-108-20%_50V-XYR_TP-2012   C4D410   BY130282   2033-000142   C-CERAMIC.CHIP-1078-108-20%_50V-XYR_TP-2012   C4D410   BY130282   2033-000142   C-CERAMIC.CHIP-1078-108-20%_50V-XYR_TP-2012   C4D410   BY130273   2041-000144   C-AL-1072-20%-50V-XPR-2078-108-20%_50V-XYR_TP-2012   C4D410   BY130273   2041-000144   C-AL-1072-20%-50V-XPR-2078-50V-XPR-2078-50V-XPR-207					
G3A31 BY130150   C203000192   C CLERAMIC, CHIP100F, 18-0.20%, 50V,YSV,TP, C3D01 BY130160   2203-000193   C CLERAMIC, CHIP100F, 18-0.20%, 50V,YSV,TP, C3D01 BY130082   2301-000183   C CHI M.PEF;47hE59%, 100V,TP.7.3X73.2X5.5   C C3D03 70796281   2303-000260   C CHI M.PEF;47hE59%, 100V,TP.7.3X73.2X5.5   C C3D03 70796281   2203-000260   C CAL A7U;20%, 15V,CP.F.55.7   C C3D03 707962					
C3031 BY130150   2203-000172   C-CERAMIC,CHIP1.00n.F. 80-20%,S0V/YSVTP, C30073   T0796281   2203-000280   C-FILM PEEF An E-5%, 10017. Pt. 387 / 387					
C3000					
Carrier   Carr					
C-CERAMIC, CHIP-4, 7n.F. 10%, 50W, X7R, TP.2012					
C-CERAMIC, CHIP-10nf-10w, 50V,X7R, TP.2012					
C401         BY130282         2401-003107         C~AL-47 Jr.20%, 16V-GPTE-8X-5           C402         70795974         2203-000609         CCERAMIC, CHIP-276-16%, 50V-XPR, TP-2012           C404         70795123         2401-001085         C~AL-37 Jr.20%, 16V-GPTE-8X11, 5           C405         BY130281         2401-001085         C~AL-37 Jr.20%, 16V-GPTE-8X11, 5           C406         70795075         2202-000797         CCERAMIC, MIC-ALL-10NR, 30%, 16V-YS-S, TP.           C407         BY130182         2401-003107         C~AL-47 Jr.20%, 16V-GPTE-8X-7.5           C410         BY130351         2203-000192         CCERAMIC, CHIP-156-170%, 50V-XYR, TP-2012           C4N02         BY130273         2401-000141         C~AL-47 Jr.20%, 16V-GPTE-8X-7.5           C4N03         72531473         2203-000260         CCERAMIC, CHIP-106-170%, 50V-XYR, TP-2012           C4N04         70795261         2203-000260         CCERAMIC, CHIP-106-170%, 50V-XYR, TP-2012           C4N05         70796281         2203-000260         CCERAMIC, CHIP-106-170%, 50V-XYR, TP-2012           C4N08         BY130273         2401-000194         C~AL-106-20%, 16V-GPTE-4X-7.5           C4N10         BY130273         2401-000144         C~AL-106-20%, 16V-GPTE-4X-7.5           C4N11         BY130150         2203-000162 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
C-CERAMIC, CHIP-120.F.10%, 50V,XYR, TP.2012					
4403         BY300499         2401-001655         C-AL:47UE 20%, 16V CRP ITPS x11,5           C404         70795123         2401-001085         C-AL:47UE 20%,50V,WT,Pto.3x11,2:5           C406         BY30281         2401-003046         C-AL:47UE 20%,50V,WT,Pto.3x11,2:5           C406         70795075         2202-000797         C-CERAMIC,CHIP-100,718,12:05%,50V,YSV,TP.           C410         BY330150         2203-000142         C-CERAMIC,CHIP-100,718,050V,X7R,TP.2012           C4N02         BY330273         2401-000414         C-AL:10UE 20%,16V,GP,TB4X,7.5           C4N03         72531473         2203-000142         C-CERAMIC,CHIP-10,FP,50V,X7R,TP.2012           C4N04         7079576         2401-001919         C-AL:2 UE,20%,50V,NPO,TP,47K/TM.5           C4N05         70796281         2203-000260         C-CERAMIC,CHIP-10nF,10%,50V,X7R,TP.2012           C4N06         70796976         2203-000260         C-CERAMIC,CHIP-10nF,10%,50V,X7R,TP.2012           C4N08         BY330273         2401-000144         C-AL:10UE,20%,16V,CRF,TB4X,7.5           C4N11         BY130273         2401-000144         C-AL:10UE,20%,16V,CRF,TB4X,7.5           C4N11         BY130150         2203-000192         C-ERAMIC,CHIP:10H,30F,30V,3VR,TP.2012           C4N12         BY130150         2203-000192         C-ER					
CAL-330nE-20%, SOV,CP., 5x9, 2mm					
C406					
C407   BY130182   2401-003107   C.AL:47UE.20%,16VGP.TPSX7.5	C405	BY130281	2401-003046	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5	
CA10 BY130150 2203-000102 C-CERAMIC,CHIP-1 56F1-09-50W,XFV.TP. CAND2 BY130273 2401-000414 C-A-L1-0u-E20%_16V/GPTP4x7_5 CAND4 70795769 2401-001919 C-A-L2-0u-E20%_50V,XFV.TP. CAND4 70795769 2401-001919 C-A-L2-0u-E20%_50V_XFV.TP. CAND5 70796281 2203-000260 C-CERAMIC,CHIP-10-61-10%_50W,XFV.TP.2012 CAND6 70796281 2203-000260 C-CERAMIC,CHIP-10-61-10%_50W,XFV.TP.2012 CAND6 70796281 2203-000260 C-CERAMIC,CHIP-10-61-10%_50W,XFV.TP.2012 CAND6 70796281 2203-000042 C-CERAMIC,CHIP-10-61-10%_50W,XFV.TP.2012 CAND8 BY130351 2203-000142 C-CERAMIC,CHIP-10-61-10%_50W,XFV.TP.2012 CAND9 BY130273 2401-000414 C-A-L1-0u-E20%_16-VGFTP4x7_5 CAN11 BY130159 2401-001020 C-A-L3-3u-E20%_50W,YFV.TP. CAN12 BY130150 2203-000192 C-CERAMIC,CHIP-1006-180-20%_50W,YSV.TP. CAN13 BY130150 2203-000192 C-CERAMIC,CHIP-1006-180-20%_50W,YSV.TP. CAN14 BY130150 2203-000192 C-CERAMIC,CHIP-1006-180-20%_50W,YSV.TP. CAN15 BY130150 2203-000192 C-CERAMIC,CHIP-1006-180-20%_50W,YSV.TP. CAN16 BY130273 2401-000414 C-A-L1-0u-E20%_16-VGFTP4x7_5 CAN16 BY130150 2203-000192 C-CERAMIC,CHIP-1006-180-20%_50W,YSV.TP. CAN17 70795976 2203-000192 C-CERAMIC,CHIP-1006-180-20%_50W,YSV.TP. CAN16 BY130049 2401-002144 C-A-L1-0u-E20%_16-VGFTP4x7_5 CAN17 70795976 2203-000938 C-CERAMIC,CHIP-1006-180-20%_50W,YSV.TP. CAN17 70795976 2203-000938 C-CERAMIC,CHIP-10-016-180-20%_50W,YSV.TP. CAN19 T0795976 2203-0000938 C-CERAMIC,CHIP-10-016-180-50W,YSV.TP. CAN19 T0795976 2203-0000938 C-CERAMIC,CHIP-10-016-180-50W,YSV.TP. CAN19 T0795976 2203-0000938 C-CERAMIC,CHIP-10-016-180-20%_50W,YSV.TP. CAN19 T0795976 2203-0000938 C-CERAMIC,CHIP-10-016-180-50W,YSV.TP. CAN19 T0795976 2203-0000938 C-CERAMIC,CHIP-10-016-180-50W,YSV.TP. CAN19 T0795076 2203-0000938 C-CERAMIC,CHIP-10-180-180-180-180-180-180-180-180-180-					
CANOL BY130251 2203-000142 C-CERAMIC,CHIP-1.5nE,10%,50V,XPR,TR-2012 (CANO2 PS) 30273 2201-000414 C-AL-104E,20%,50V,XPR,TP-2012 (CANO3 7,7581473 2203-000595 C-CERAMIC,CHIP-1.0nE,10%,50V,XPR,TP-2012 (CANO5 7,0796,281 2203-000260 C-CERAMIC,CHIP-1.0nE,10%,50V,XPR,TP-2012 (CANO6 70796,281 2203-000260 C-CERAMIC,CHIP-1.0nE,10%,50V,XPR,TP-2012 (CANO6 70796,281 2203-000260 C-CERAMIC,CHIP-1.0nE,10%,50V,XPR,TP-2012 (CANO6 70796,281 2203-000260 C-CERAMIC,CHIP-1.0nE,10%,50V,XPR,TP-2012 (CANO8 BY130351 2203-000142 C-CERAMIC,CHIP-1.0nE,10%,50V,XPR,TP-2012 (CANO8 BY130273 2401-000414 C-AL-104E,20%,16V,GETP4X7,5 (CANO10 BY130273 2401-000414 C-AL-104E,20%,16V,GETP4X7,5 (CANO10 BY130273 2401-000414 C-AL-104E,20%,50V,GETP4X7,5 (CANO10 BY130150 2203-000192 C-CERAMIC,CHIP-1.0nE,80-20%,50V,YSV,TP, CANO10 BY130150 2203-000192 C-CERAMIC,CHIP-100nE,80-20%,50V,YSV,TP, CANO10 BY130150 2203-0000938 C-CERAMIC,CHIP-100E,50-50V,TP, CANO10 BY130150 2203-0000938 C-CERAMIC,CHIP-100E,50-50V,TP, CANO10 BY130150 2203-0000938 C-CERAMIC,CHIP-100E,50-50V,TP, TAY, 5 CANO10 BY130150 2203-0000938 C-CERAMIC,CHIP-100E,					
CAN02 BY130273 2401-000414 C.AL:10IF,20%,16V,GFTP4x7,5 CAN04 70795769 2401-001919 C.AL:20LE,20%,50V,50V,TP4x7mm,5 CAN06 70796,281 2203-000260 C.CERAMIC,CHIP-106r,10%,50V,X7R,TP.2012 CAN06 70796,281 2203-000260 C.CERAMIC,CHIP-106r,10%,50V,X7R,TP.2012 CAN06 70796,281 2203-000278 C.CERAMIC,CHIP-106r,10%,50V,X7R,TP.2012 CAN07 70795976 2203-000142 C.CERAMIC,CHIP-106r,10%,50V,X7R,TP.2012 CAN08 BY130351 2203-000142 C.CERAMIC,CHIP-106r,10%,50V,X7R,TP.2012 CAN09 BY130273 2401-000414 C.AL:10IL,20%,16V,GFTP4x7,5 CAN10 BY130273 2401-000414 C.AL:10IL,20%,16V,GFTP4x7,5 CAN11 BY130159 2401-001020 C.AL:30IL,20%,16V,GFTP4x7,5 CAN12 BY130150 2203-000192 C.CERAMIC,CHIP-100fr,80-20%,50V,Y5V,TP, CAL:10IL,20%,16V,GFTP4x7,5 CAN13 BY130150 2203-000192 C.CERAMIC,CHIP-100fr,80-20%,50V,Y5V,TP, CAL:10IL,20%,16V,GFTP4x7,5 CAN16 BY130273 2401-000414 C.AL:10IL,20%,16V,GFTP4x7,5 CAN16 BY130150 2203-000192 C.CERAMIC,CHIP-100fr,80-20%,50V,Y5V,TP, CAL:10IL,20%,16V,GFTP4x7,5 CAN16 BY130150 2203-000192 C.CERAMIC,CHIP-100fr,80-20%,50V,Y5V,TP, CAN16 BY130041 2401-002144 C.AL:10IL,20%,16V,GFTP4x7,5 CAN16 BY130047 2401-002144 C.AL:10IL,20%,16V,GFTP4x7,5 CAN16 BY130049 2401-002144 C.AL:10IL,20%,16V,GFTP4x7,5 CAN16 BY130049 2401-002144 C.AL:10IL,20%,16V,GFTP4x7,5 CAN17 70795976 2203-000938 C.CERAMIC,CHIP-100fr,80-20%,50V,Y5V,TP, CAN17 70795976 2203-000938 C.CERAMIC,CHIP-0.47fi,E5%,50V,NF0,TP.2012 CAN18 70795976 2203-0000938 C.CERAMIC,CHIP-0.47fi,E5%,50V,NF0,TP.2012 CAN18 BY130042 2401-000098 C.CERAMIC,CHIP-0.47fi,E5%,50V,NF0,TP.2012 CAN18 BY130042 2401-000098 C.AL:10IL,20%,60V,GFTP4x7,5 CAN28 BY130042 2401-000098 C.AL:10IL,20%,60V,GFTP4x7,5 CAN28 BY130042 2401-000098 C.AL:10IL,20%,60V,GFTP4x7,5 CAN28 BY130042 2401-000098 C.AL:10IL,20%,60V,GFTP4x7,5 CS04 BY130042 2401-000098 C.AL:10IL,20%,60V,GFTP4x7,5 CS05 70760,281 2203-000091 C.CERAMIC,CHIP:3.3fi,1006,50V,XTR,TP.2012 CS05 70760,281 2203-000091 C.CERAMIC,CHIP:3.3fi,1006,50V,XTR,TP.2012 CS05 70760,376 2203-000091 C.CERAMIC,CHIP:3.3fi,1006,50V,XTR,TP.2012 CS11 BY130150 2203-000091 C.CERAMIC,CHIP:3.3fi,10					
CAN03 72531473 2203-000595 C-CERAMIC,CHIP-0.22nE59%_50V_NP0.TP.2012 CAN06 70796281 2203-000260 C-CERAMIC,CHIP-10nE109%_50V_XRR_TP.2012 CAN06 70796281 2203-000260 C-CERAMIC,CHIP-10nE109%_50V_XRR_TP.2012 CAN07 70795976 2203-000938 C-CERAMIC,CHIP-10nE109%_50V_XRR_TP.2012 CAN08 BY130351 2203-000142 C-CERAMIC,CHIP-10nE109%_50V_XRR_TP.2012 CAN09 BY130273 2401-000414 C-AL:10uE209%_16V_GRIPAX7.5 CAN10 BY130273 2401-000141 C-AL:10uE209%_16V_GRIPAX7.5 CAN11 BY130150 2203-000192 C-CERAMIC,CHIP-10nE1098_50V_XRR_TP.2012 CAN12 BY130150 2203-000192 C-CERAMIC,CHIP-100nE1098_50V_XRR_TP.2012 CAN13 BY130150 2203-000192 C-CERAMIC,CHIP-100nE1098_200%_50V_YSV_TP. CAN14 BY130150 2203-000192 C-CERAMIC,CHIP-100nE1098_200%_50V_YSV_TP. CAN15 BY130150 2203-000192 C-CERAMIC,CHIP-100nE100F.200%_50V_YSV_TP. CAN16 BY130049 2401-002144 C-AL:10uE209%_16V_GRIPAX7.5 CAN17 70795976 2203-0000938 C-CERAMIC,CHIP-100nE109.0209%_50V_YSV_TP. CAN18 PY1302049 2401-0002144 C-AL:47uE209%_16V_GRIPASX1.5 CAN17 70795976 2203-0000938 C-CERAMIC,CHIP-100nE109.0209%_50V_YSV_TP. CAN18 BY130040 2200-000938 C-CERAMIC,CHIP-0.47nE59%_50V_NPO.TP.2012 CAN19 BY130261 2201-002069 C-CERAMIC,CHIP-0.47nE59%_50V_NPO.TP.2012 CAN19 BY130261 2201-002069 C-CERAMIC,CHIP-0.47nE59%_50V_NPO.TP.2012 CAN29 BY130261 2201-002069 C-CERAMIC,CHIP-0.47nE59%_50V_NPO.TP.2012 CAN29 BY130261 2201-002069 C-CERAMIC,DISC:1.5pE0.25pE50V_NPO.TP.4 CAN20 BY130273 2401-000598 C-AL:1uE:200%_50V_GRIPAX7.5 CS02 BY130227 2401-000598 C-AL:1uE:200%_50V_GRIPAX7.5 CS03 BY130273 2401-000699 C-CERAMIC,DISC:1.5pE0.25pE50V_NPO,TP.4 CAN20 BY130273 2401-000699 C-CERAMIC,DISC:1.5pE0.25pE50V_NPO,TP.4 CAN20 BY130261 2201-002069 C-CERAMIC,DISC:1.5pE0.25pE50V_NPO,TP.4 CAN20 BY130261 2201-002069 C-CERAMIC,DISC:1.5pE0.25pE50V_NPO,TP.4 CAN20 BY130273 2401-000698 C-AL:1uE:200%_50V_GRIPAX7.5 CS05 BY130273 2401-000699 C-CERAMIC,DISC:1.5pE0.25pE50V_NPO,TP.4 CAN20 BY130273 2401-000699 C-CERAMIC,DISC:1.5pE0.25pE50V_NPO,TP.4 CAN20 BY130282 2401-000699 C-CERAMIC,DISC:1.5pE0.25pE50V_NPO,TP.4 CAN20 BY130282 2401-000699 C-CERAMIC,DISC:1					
CAND4 70795769 2401-001919 C-AL-2_2UF_20%_50V_, TP.4x7mm_5 CAND6 70796281 2203-000260 C-CERAMIC_CHIP-10nF_109_6_50V_X7R_TP.2012 CAND6 70796281 2203-000938 C-CERAMIC_CHIP-10nF_109_6_50V_X7R_TP.2012 CAND7 70795976 2203-000938 C-CERAMIC_CHIP-10nF_109_6_50V_X7R_TP.2012 CAND8 BY1303273 2401-000414 C-AL-10UF_209_16V_6R_TP.4x7_5 CAN11 BY130273 2401-000414 C-AL-10UF_209_16V_6R_TP.4x7_5 CAN11 BY130159 2401-001020 C-AL-3_3UF_209_6_10V_GR_TP.4x7_5 CAN12 BY130150 2203-000192 C-CERAMIC_CHIP-10nF_409_209_6_50V_YSV_TP. CAN13 BY130150 2203-000192 C-CERAMIC_CHIP-100nF_409_209_6_50V_YSV_TP. CAN14 BY130273 2401-000414 C-AL-10UF_209_6_10V_GR_TP.4x7_5 CAN15 BY130150 2203-000192 C-CERAMIC_CHIP-100nF_409_209_6_50V_YSV_TP. CAN16 BY130150 2203-000192 C-CERAMIC_CHIP-100nF_409_209_6_50V_YSV_TP. CAN16 BY130150 2203-000192 C-CERAMIC_CHIP-100nF_409_209_6_50V_YSV_TP. CAN16 BY130150 2203-000192 C-CERAMIC_CHIP-100nF_400_209_6_50V_YSV_TP. CAN16 BY130150 2203-000192 C-CERAMIC_CHIP-100nF_400_209_6_50V_YSV_TP. CAN16 BY130150 2203-000192 C-CERAMIC_CHIP-100nF_400_209_6_50V_YSV_TP. CAN17 70795976 2203-000938 C-CERAMIC_CHIP-1047nF_59_50V_NP0_TP.2012 CAN18 70795976 2203-000938 C-CERAMIC_CHIP-1047nF_59_50V_NP0_TP.2012 CAN18 8Y1300261 2201-002069 C-CERAMIC_CHIP-1047nF_59_50V_NP0_TP.2012 CAN28 BY130021 2201-002069 C-CERAMIC_DISC_11_5pE_0_25pE_50V_NP0_TP.4 CAN28 BY130042 2401-000598 C-AL-1UE_209_6_50V_GR_TP.4x7_5 CS01 BY130042 2401-000598 C-AL-1UE_209_6_50V_GR_TP.4x7_5 CS03 70699092 2401-000918 C-AL-1UE_209_6_50V_GR_TP.4x7_5 CS04 BY130042 2401-000598 C-AL-1UE_209_6_50V_GR_TP.8x7_5 CS05 70766281 2203-000260 C-CERAMIC_CHIP-10nF_109_5_50V_X7R_TP.2012 CS06 70769376 2203-000166 C-CERAMIC_CHIP-10nF_109_5_50V_X7R_TP.2012 CS07 70769376 2203-000716 C-CERAMIC_CHIP-30nF_109_5_50V_X7R_TP.2012 CS08 BY130042 2401-000598 C-AL-1UE_209_6_50V_GR_TP.8x7_5 CS09 70766376 2203-000716 C-CERAMIC_CHIP-30nF_109_5_50V_X7R_TP.2012 CS09 70766376 2203-000716 C-CERAMIC_CHIP-30nF_109_5_50V_X7R_TP.2012 CS10 BY130042 2401-000598 C-AL-1UE_209_5_50V_GR_TP.8x7_5 CS11 BY130142 203-000690 C-CER					
CAN06 70796281 2203-000260 C-CERAMIC_CHIP-10nf;10%_50V_XTR_TP_2012 CAN08 BY130251 2203-000142 C-CERAMIC_CHIP-047nF.5%_50V_NPD_TP_2012 CAN08 BY130273 2401-000414 C-AL:10uF_20%_16V_GPT_P4X7_5 CAN10 BY130273 2401-000200 C-AL:3.3UF_20%_16V_GPT_P4X7_5 CAN11 BY130159 2203-000192 C-CERAMIC_CHIP-11-0nf;10%_50V_XTR_TP_2012 CAN12 BY130150 2203-000192 C-CERAMIC_CHIP-1100nf;+80-20%_50V_Y5V_TP_ CAN13 BY130150 2203-000192 C-CERAMIC_CHIP-1100nf;+80-20%_50V_Y5V_TP_ CAN14 BY130273 2401-0000214 C-AL:10uF_20%_16V_GPT_P4X7_5 CAN15 BY130150 2203-000192 C-CERAMIC_CHIP-100nf;+80-20%_50V_Y5V_TP_ CAN16 BY1300150 2203-000192 C-CERAMIC_CHIP-100nf;+80-20%_50V_Y5V_TP_ CAN16 BY1300150 2203-000192 C-CERAMIC_CHIP-100nf;+80-20%_50V_Y5V_TP_ CAN16 BY1300150 2203-000192 C-CERAMIC_CHIP-100nf;+80-20%_50V_Y5V_TP_ CAN16 BY1300150 2203-000193 C-CERAMIC_CHIP-100nf;+80-20%_50V_Y5V_TP_ CAN17 70795976 2203-000938 C-CERAMIC_CHIP-0.47nF.59%_50V_NPO_TP_2012 CAN18 T0795976 2203-000938 C-CERAMIC_CHIP-0.47nF.59%_50V_NPO_TP_2012 CAN18 BY130261 2201-002069 C-CERAMIC_CHIP-0.47nF.59%_50V_NPO_TP_2012 CAN28 BY1300261 2201-002069 C-CERAMIC_DISC:1.5pF.0.25pF.50V_NPO_TP_4 CAN28 BY130042 2401-000598 C-AL:1uF.20%_50V_GP.TP.4X7_5 CAN26 BY130027 2202-002037 C-CERAMIC_DISC:1.5pF.0.25pF.50V_NPO_TP_4 CAN26 BY130027 2202-002037 C-CERAMIC_MIC_AXIAL:100nF.80-20%_50V_Y5V_C CS01 BY130027 2202-002037 C-CERAMIC_MIC_AXIAL:100nF.80-20%_50V_Y5V_C CS01 BY130027 2202-002037 C-CERAMIC_MIC_AXIAL:100nF.80-20%_50V_Y5V_C CS03 T0699092 2401-000598 C-AL:1uF.20%_50V_GP.TP.4X7_5 CS04 BY130136 2401-002599 C-AL:1uF.20%_50V_GP.TP.4X7_5 CS05 T0699092 2401-000918 C-AL:2uE.20%_16V_GP-6.3X7_5 CS06 T0699092 2401-000918 C-AL:2uE.20%_16V_GP-6.3X7_5 CS07 T0699092 2401-000918 C-AL:2uE.20%_16V_GP-6.3X7_5 CS08 BY130174 2203-000160 C-CERAMIC_CHIP-1.10nf;10%_50V_XTR_TP_2012 CS12 BY130011 2203-000190 C-CERAMIC_CHIP-1.10nf;10%_50V_XTR_TP_2012 CS12 BY130011 2203-000190 C-CERAMIC_CHIP-1.10nf;10%_50V_XTR_TP_2012 CS14 BY130042 2401-000598 C-AL:1uF.20%_50V_GP.TP.5X7_5 CS16 BY130042 2401-000598 C-AL:1uF.20%_50V_GP.TP.5X7					
CAN07 70795976 2203-000938 C-CERAMIC, CHIP-0.47n; 5%, 50V, NPO, TP, 2012 CAN08 BY130273 2401-000414 C-AL:10uf, 20%, 16V, GP, TP, 4X7, 5 CAN10 BY130273 2401-000414 C-AL:10uf, 20%, 16V, GP, TP, 4X7, 5 CAN11 BY130159 2401-001020 C-AL:3 10uf, 20%, 16V, GP, TP, 4X7, 5 CAN12 BY130150 2203-000192 C-CERAMIC, CHIP-10onf, +80-20%, 50V, Y5V, TP, CAN13 BY130150 2203-000192 C-CERAMIC, CHIP-10onf, +80-20%, 50V, Y5V, TP, CAN14 BY130150 2203-000192 C-CERAMIC, CHIP-10onf, +80-20%, 50V, Y5V, TP, CAN15 BY130150 2203-000192 C-CERAMIC, CHIP-10onf, +80-20%, 50V, Y5V, TP, CAN16 BY130273 2401-000414 C-AL:10uf, 20%, 16V, GP, TP, 4X7, 5 CAN16 BY130049 2401-002144 C-AL:47uf, 20%, 16V, GP, TP, 5x1, 1.5 CAN17 70795976 2203-000938 C-CERAMIC, CHIP-10onf, +80-20%, 50V, Y5V, TP, CAN18 BY130049 2201-002144 C-AL:47uf, 20%, 16V, GP, TP, 5x1, 1.5 CAN19 70693047 2202-000279 C-CERAMIC, CHIP-0-47nf, 5%, 50V, NPO, TP, 2012 CAN19 70693047 2202-000279 C-CERAMIC, MIC, CHIP-0-47nf, 5%, 50V, NPO, TP, 2012 CAN20 BY130261 2201-002069 C-CERAMIC, DISC:1, 5pf, 0.25pf, 50V, NPO, TP, 4 CAN22 BY130042 2401-000598 C-AL:1uf, 20%, 50V, GP, TP, 4X7, 5 CAN24 BY130042 2401-000598 C-AL:1uf, 20%, 50V, GP, TP, 4X7, 5 CS03 70699092 2401-000918 C-AL:20, 20%, 50V, GP, TP, 4X7, 5 CS04 BY130042 2401-000918 C-AL:20, 20%, 60V, GP, TP, 4X7, 5 CS05 7096281 2203-000260 C-CERAMIC, CHIP-0, 47nf, 60V, 60V, 75, 75 CS06 7069092 2401-000918 C-AL:20, 20%, 60V, GP, TP, 4X7, 5 CS07 7069092 2401-000918 C-AL:20, 20%, 60V, GP, TP, 4X7, 5 CS08 BY130174 2203-000260 C-CERAMIC, CHIP-10, 7nf, 10%, 50V, X7R, TP, 2012 CS06 7069092 2401-000918 C-AL:20, 20%, 60V, GP, TP, 4X7, 5 CS07 7069092 2401-000918 C-AL:20, 20%, 60V, GP, TP, 4X7, 5 CS08 BY130174 2203-00070 C-CERAMIC, CHIP-13, 3nf, 10%, 50V, X7R, TP, 2012 CS06 7069092 2401-000918 C-AL:20, 20%, 60V, GP, TP, 5X7, 5 CS07 7069092 2401-000918 C-AL:20, 20%, 60V, GP, TP, 5X7, 5 CS08 BY130174 2203-00070 C-CERAMIC, CHIP-1, 47, 16, 10%, 50V, X7R, TP, 2012 CS14 BY130042 2401-000598 C-AL:1uf, 20%, 50V, GP, TP, 5X7, 5 CS15 BY130014 2203-000716 C-CERAMIC, CHIP-1,	C4N05	70796281	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
CAN08 BY130351 2203-000142 C-CERAMIC, CHIP-1.5FF, 10%, 50V, X7R, TP, 2012 CAN09 BY130273 2401-000414 C-AL:10uf, 20%, 16V GP, TP, 4x7, 5 CAN11 BY130159 2401-001020 C-AL:3.3UF, 20%, 50V, GP, TP, 4x7, 5 CAN12 BY130150 2203-000192 C-CERAMIC, CHIP-100nF, +80-20%, 50V, Y5V, TP, CAN13 BY130150 2203-000192 C-CERAMIC, CHIP-100nF, +80-20%, 50V, Y5V, TP, CAN14 BY130273 2401-000414 C-AL:10uf, 20%, 16V, GP, TP, 4x7, 5 CAN15 BY130150 2203-000192 C-CERAMIC, CHIP-100nF, +80-20%, 50V, Y5V, TP, CAN16 BY130049 2401-002144 C-AL:10uf, 20%, 16V, GP, TP, 4x7, 5 CAN17 70795976 2203-000938 C-CERAMIC, CHIP-100nF, +80-20%, 50V, Y5V, TP, CAN18 70795976 2203-000938 C-CERAMIC, CHIP-0, 47nE, 5%, 50V, NPO, TP, 2012 CAN19 70693047 2202-000279 C-CERAMIC, MIC-AXIAL, 47pE, 5%, 50V, S0V, ST, TP, 3. CAN21 BY130261 2201-002069 C-CERAMIC, MIC-AXIAL, 47pE, 5%, 50V, S0V, ST, TP, 3. CAN22 BY130261 2201-002069 C-CERAMIC, DISC:1.5pE, 0.25pE, 50V, NPO, TP, 2012 CAN23 BY130042 2401-000598 C-AL:1uE, 20%, 50V, GP, TP, 4x7, 5 CAN24 BY130042 2401-000598 C-AL:1uE, 20%, 50V, GP, TP, 4x7, 5 CS02 BY130042 2401-000598 C-AL:1uE, 20%, 50V, GP, TP, 4x7, 5 CS03 70699092 2401-000918 C-AL:10E, 20%, 50V, GP, TP, 4x7, 5 CS04 BY130042 2401-000598 C-AL:1uE, 20%, 50V, GP, TP, 4x7, 5 CS05 70796281 2203-000260 C-CERAMIC, CHIP-10 F, 10%, 50V, X7R, TP, 2012 CS06 70699092 2401-000918 C-AL:2uE, 20%, 50V, GP, TP, 4x7, 5 CS07 70699092 2401-000918 C-AL:2uE, 20%, 16V, GP, 6, 3x7, 5 CS08 BY1300142 2203-000801 C-CERAMIC, CHIP-10nE, 10%, 50V, X7R, TP, 2012 CS09 70796376 2203-000916 C-CERAMIC, CHIP-10nE, 10%, 50V, X7R, TP, 2012 CS10 BY130042 2401-000918 C-AL:2uE, 20%, 16V, GP, F, 6, 3x7, 5 CS10 BY130011 2203-000199 C-CERAMIC, CHIP-10nE, 10%, 50V, X7R, TP, 2012 CS10 BY130042 2401-000918 C-AL:2uE, 20%, 16V, GP, F, 6, 3x7, 5 CS10 BY130174 2203-000801 C-CERAMIC, CHIP-1, 7nE, 10%, 50V, X7R, TP, 2012 CS10 BY130042 2401-000918 C-AL:2uE, 20%, 16V, GP, F, 6, 3x7, 5 CS17 BY130174 2203-000919 C-CERAMIC, CHIP-1, 7nE, 10%, 50V, X7R, TP, 2012 CS16 BY130041 2401-000598 C-AL:1uE, 20%, 50V, GP, TP, 4x7, 5 C					
CAN109 BY130273 2401-000414 C-AL:10uE;20%,16vGePTP;4x7,5 CAN11 BY130159 2401-001020 C-AL:3.3UF;20%,50V,GP,TP;4x7,5 CAN12 BY130150 2203-000192 C-CERAMIC,CHIP:100nF;480-20%,50V,Y5V,TP, CAN13 BY130150 2203-000192 C-CERAMIC,CHIP:100nF;480-20%,50V,Y5V,TP, CAN14 BY130273 2401-000414 C-AL:10uE;20%,16v,GePTP;4x7,5 CAN15 BY130150 2203-000192 C-CERAMIC,CHIP:100nF;480-20%,50V,Y5V,TP, CAN16 BY130150 2203-000192 C-CERAMIC,CHIP:100nF;480-20%,50V,Y5V,TP, CAN16 BY130049 2401-002144 C-AL:10uE;20%,16v,GePTP;4x7,5 CAN17 70795976 2203-000938 C-CERAMIC,CHIP:0.47nF;5%,50V,NP0,TP;2012 CAN18 70795976 2203-000938 C-CERAMIC,CHIP:0.47nF;5%,50V,NP0,TP;2012 CAN19 70693047 2202-000279 C-CERAMIC,CHIP:0.47nF;5%,50V,NP0,TP;2012 CAN21 BY130261 2201-002069 C-CERAMIC,DISC:1.5;50,25pF;50V,NP0,TP;4 CAN22 BY130042 2401-000598 C-AL:1uE;20%,50V,GPTP;4x7,5 CAN24 BY130042 2401-000598 C-AL:1uE;20%,50V,GPTP;4x7,5 CAN25 BY130042 2401-000414 C-AL:10uF;20%,60V,GPTP;4x7,5 CS03 70699092 2401-000918 C-AL:1uE;20%,50V,GPTP;4x7,5 CS04 BY130136 2401-000598 C-AL:1uE;20%,50V,GPTP;4x7,5 CS05 70796281 2203-000269 C-CERAMIC,MIC:AXIAL:100nF;80-20%,50V,Y5V CS06 8V130136 2401-000918 C-AL:1uE;20%,50V,GPTP;4x7,5 CS07 70699092 2401-000918 C-AL:1uE;20%,50V,GPTP;4x7,5 CS08 BY130174 2203-000269 C-CERAMIC,CHIP:0.fin;10x;60V,XTR,TP;2012 CS18 BY130174 2203-000891 C-CERAMIC,CHIP:0.fin;10x;60V,XTR,TP;2012 CS18 BY130174 2203-000891 C-CERAMIC,CHIP:0.fin;10x;60V,XTR,TP;2012 CS18 BY130042 2401-000918 C-AL:2uE;20%,50V,GPTP;4x7,5 CS19 BY130174 2203-000891 C-CERAMIC,CHIP:0.fin;10x;60V,XTR,TP;2012 CS18 BY130174 2203-000698 C-AL:1uE;20%,50V,GPTP;4x7,5 CS19 BY130174 2203-000192 C-CERAMIC,CHIP:0.fin;10x;60V,XTR,TP;2012 CS18 BY130042 2401-000598 C-AL:1uE;20%,50V,GPTP;4x7,5 CS18 BY130042 2401-000918 C-AL:2uE;20%,60V,GPTP;4x7,5 CS19 BY130174 2203-000690 C-CERAMIC,CHIP:0.fin;30x;50V,XTR,TP;2012 CS18 BY130174 2203-000690 C-CERAMIC,CHIP:0.fin;30x;50V,XTR,TP;2012 CS18 BY130011 2003-000766 C-CERAMIC,CHIP:0.fin;30x;50V,XTR,TP;2012 CS18 BY130014 2401-000598 C-AL:1uE;20%,50V,GPTP;4x7,5 CS19 BY130014 2401-					
CAN10 BY130173 2401-000414 C.AL-10uF.209%.16V/GP.TP.4X7.5 CAN11 BY130159 2401-001020 C.AL-3.3UF.20%,50V/GP.TP.4X7.5 CAN12 BY130150 2203-000192 C.CERAMIC,CHIP:100nF.+80-20%,50V,Y5V,TP, CAN13 BY130150 2203-000192 C.CERAMIC,CHIP:100nF.+80-20%,50V,Y5V,TP, CAN14 BY130273 2401-000414 C.AL-10uF.209%.16V/GP.TP.4X7.5 CAN15 BY130150 2203-000192 C.CERAMIC,CHIP:100nF.+80-20%,50V,Y5V,TP, CAN16 BY130049 2401-002144 C.AL-12uF.209%.16V/GP.TP.4X7.5 CAN17 70795976 2203-000938 C.CERAMIC,CHIP:0.47nF.5%,50V,NP0,TP.2012 CAN18 70795976 2203-000938 C.CERAMIC,CHIP:0.47nF.5%,50V,NP0,TP.2012 CAN19 70693047 2202-000279 C.CERAMIC,CHIP:0.47nF.5%,50V,NP0,TP.2012 CAN19 BY130261 2201-002069 C.CERAMIC,MIC-AVAIL-47pF.5%,50V,NP0,TP.4 CAN23 BY130042 2401-002069 C.CERAMIC,DISC:1.5pF.0.25pF.50V,NP0,TP.4 CAN24 BY130042 2401-000598 C.AL:1uF.20%,50V,GP,TP.4X7.5 CAN25 BY130027 2202-002037 C.CERAMIC,MIC-AVAIL-17pF.59-50V,NP0,TP.4 CAN26 BY130027 2202-002037 C.CERAMIC,MIC-AVAIL-17pF.59-0.50V,FSV CSO1 BY130273 2401-000598 C.AL:1uF.20%,50V,GP,TP.4X7.5 CSO2 BY130042 2401-000598 C.AL:1uF.20%,50V,GP,TP.4X7.5 CSO3 70699092 2401-000918 C.AL:2uF.20%,16V,GP,TP.4X7.5 CSO3 70699092 2401-000918 C.AL:2uF.20%,16V,GP,TP.4X7.5 CSO4 BY130136 2401-000299 C.AL:4.7uF.20%,50V,GP,TP.4X7.5 CSO5 70796281 2203-000260 C.CERAMIC,CHIP:10nF.109%,50V,X7R,TP.2012 CSO6 70699092 2401-000918 C.AL:2uF.20%,16V,GP,F.6.3X7.5 CSO7 70699092 2401-000918 C.AL:2uF.20%,50V,GP,TP.4X7.5 CSO8 BY130014 2203-000891 C.CERAMIC,CHIP:10nF.109%,50V,X7R,TP.2012 CSO8 BY130014 2203-000919 C.CERAMIC,CHIP:10nF.109%,50V,X7R,TP.2012 CSO8 BY130014 2203-000166 C.CERAMIC,CHIP:3.3nF.10%,50V,X7R,TP.2012 CSO1 BY13022 2401-000919 C.CERAMIC,CHIP:3.3nF.10%,50V,X7R,TP.2012 CSO2 BY130042 2401-000598 C.AL:1uF.20%,50V,GP,TP.37.5 CSO3 70696092 2401-000918 C.AL:2uF.20%,50V,GP,TP.37.5 CSO3 70696092 2401-000918 C.AL:2uF.20%,50V,GP,TP.37.5 CSO3 70696092 2401-000918 C.AL:2uF.20%,50V,GP,TP.37.5 CSO3 BY130174 2203-000919 C.CERAMIC,CHIP:3.3nF.10%,50V,X7R,TP.2012 CSO6 BY130042 2401-000598 C.AL:1uF.20%,50V,GP,TP.37.5 CSO3 BY130174 2203-000					
C4N11 BY130159 2401-001020 C-AL:3.3UF.20%,50V,CP.TP.4X7,5 C4N12 BY130150 2203-000192 C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP, C4N13 BY130150 2203-000192 C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP, C4N14 BY130273 2401-000414 C-AL:10uF.20%,16V,GP.TP,4X7,5 C4N15 BY130150 2203-000192 C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP, C4N16 BY130049 2401-002144 C-AL:47uF.20%,16V,GP.TP,5X1,15 C4N17 70795976 2203-000938 C-CERAMIC,CHIP:0.47nF,5%,50V,NPO,TP,2012 C4N18 70693047 2202-000279 C-CERAMIC,CHIP:0.47nF,5%,50V,NPO,TP,2012 C4N19 70693047 2202-000279 C-CERAMIC,MLC-AXIAL:47pF,59%,50V,NPO,TP,4 C4N22 BY130261 2201-002069 C-CERAMIC,DISC:1.5pF0.25pF,50V,NPO,TP,4 C4N23 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4X7,5 C4N24 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4X7,5 C4N25 BY130027 2202-002037 C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V C501 BY130273 2401-000414 C-AL:10uF,20%,50V,GP,TP,4X7,5 C502 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4X7,5 C503 70699092 2401-000918 C-AL:22uF,20%,16V,GP,-6,3X7,5 C504 BY130136 2401-000299 C-AL:1-10uF,20%,50V,GP,TP,4X7,5 C505 70796281 2203-000260 C-CERAMIC,CHIP:10nF,10nF,10%,50V,X7R,TP,2012 C506 70699092 2401-000918 C-AL:22uF,20%,16V,GP,-6,3X7,5 C507 70699092 2401-000918 C-AL:22uF,20%,16V,GP,-6,3X7,5 C508 BY130174 2203-000891 C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-000918 C-AL:22uF,20%,16V,GP,-6,3X7,5 C501 BY130282 2401-000918 C-AL:22uF,20%,16V,GP,-6,3X7,5 C502 BY130174 2203-000891 C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-000918 C-AL:22uF,20%,16V,GP,-6,3X7,5 C501 BY130282 2401-000918 C-AL:22uF,20%,16V,GP,-6,3X7,5 C502 BY130042 2401-000998 C-AL:1-10uF,20%,50V,GP,TP,50V,7F,TP,2012 C510 BY130282 2401-000998 C-AL:1-10uF,20%,50V,GP,TP,50V,7F,TP,2012 C510 BY130174 2203-000891 C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012 C511 BY130142 2401-000598 C-AL:1-10uF,20%,50V,GP,TP,50V,7F,TP,2012 C515 BY130011 2203-001665 C-CERAMIC,CHIP:3.3nF,10%,50V,X7R,TP,2012 C516 70796376 2203-000791 C-CERAMIC,CHIP:3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP:3.3nF,10%,5					
C4N12         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,75V,TP,           C4N13         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,5V,TP,           C4N14         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C4N15         BY130049         2401-002144         C-AL;10LF,20%,16V,GP,TP,4X7,5           C4N17         70795976         2203-000938         C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012           C4N18         70795976         2203-000938         C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012           C4N19         70693047         2202-000227         C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012           C4N19         70693047         2202-000203         C-CERAMIC,DISC:1.5pE,0.25pF,50V,NPO,TP,4           C4N21         BY130261         2201-002069         C-CERAMIC,DISC:1.5pE,0.25pF,50V,NPO,TP,4           C4N22         BY130042         2401-000598         C-AL;11LF,20%,50V,GP,TP,4x7,5           C4N24         BY130042         2401-000598         C-AL;11LF,20%,50V,GP,TP,4x7,5           C501         BY130027         2202-002037         C-CERAMIC,MILC-AXIAL;100nF,80-20%,50V,Y5V           C502         BY130042         2401-000918         C-AL;21LF,20%,50V,GP,TP,4x7,5           C504         BY130136         2401-0					
C4N14 BY130150 2203-000192 C-CERAMIC,CHIP:100nF,+80-20%,50V,75V,TP, C4N16 BY130150 2203-000192 C-CERAMIC,CHIP:100nF,+80-20%,50V,Y5V,TP, C4N17 70795976 2203-000938 C-CERAMIC,CHIP:0.47nF,5%,50V,NPO,TP,2012 C4N18 70795976 2203-000938 C-CERAMIC,CHIP:0.47nF,5%,50V,NPO,TP,2012 C4N19 70693047 2202-000279 C-CERAMIC,MLC-AXIAL:47pF,5%,50V,NPO,TP,2012 C4N19 8Y130261 2201-002069 C-CERAMIC,DISC:1.5pF,0.25pF,50V,NPO,TP,4 C4N21 BY130261 2201-002069 C-CERAMIC,DISC:1.5pF,0.25pF,50V,NPO,TP,4 C4N23 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4x7,5 C4N24 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4x7,5 C4N25 BY130027 2202-002037 C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V C501 BY130273 2401-000414 C-AL:10uF,20%,61V,GP,TP,4x7,5 C502 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4x7,5 C503 70699092 2401-000918 C-AL:2uF,20%,16V,GP,TP,4x7,5 C504 BY130136 2401-002299 C-AL:4.12,20%,50V,GP,TP,5x7,5 C505 70796281 2203-000260 C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012 C506 70699092 2401-000918 C-AL:22uF,20%,16V,GP,-6.3x7,5 C507 70699092 2401-000918 C-AL:22uF,20%,16V,GP,-6.3x7,5 C508 BY130174 2203-000891 C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012 C509 70796376 2203-000716 C-CERAMIC,CHIP:3.3nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-003107 C-AL:47uF,20%,610V,GP,F,5x7,5 C512 BY130011 2203-00165 C-CERAMIC,CHIP:3.3nF,10%,50V,X7R,TP,2012 C513 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,5x7,5 C514 BY130042 2401-000918 C-AL:22uF,20%,16V,GP,-6.3x7,5 C515 BY130042 2401-000918 C-AL:22uF,20%,16V,GP,-6.3x7,5 C510 BY130282 2401-000598 C-AL:1uF,20%,50V,TP,C512 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,5x7,5 C514 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,5x7,5 C515 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,5x7,5 C516 70796376 2203-000716 C-CERAMIC,CHIP:3.3nF,10%,50V,X7R,TP,2012 C517 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4x7,5 C518 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4x7,5 C519 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4x7,5 C516 BY130042 2401-000598 C-AL:1uF,20%,50V,GP,TP,4x7,5 C517 BY130174 2203-000891 C-CERAMIC,CHIP:3.3nF,10%,50V,X7R,TP,2012		BY130150			
C4N16         BY130150         2203-000192         C-CERAMIC, CHIP:100nF, +80-20%,50V,75V,TP,           C4N16         BY130049         2401-002144         C-AL:47uF,20%,16V,GP,TP,5x11,5           C4N17         70795976         2203-000938         C-CERAMIC, CHIP:0,47nF,5%,50V,NP0,TP,2012           C4N18         70795976         2203-000279         C-CERAMIC, CHIP:0,47nF,5%,50V,NP0,TP,2012           C4N19         70693047         2202-000279         C-CERAMIC, DISC:1,5pF,0.25pF,50V,NP0,TP,3           C4N21         BY130261         2201-002069         C-CERAMIC, DISC:1,5pF,0.25pF,50V,NP0,TP,4           C4N22         BY130042         2401-000598         C-AL:1uF,20%,50V,GP,TP,4x7,5           C4N23         BY130042         2401-000598         C-AL:1uF,20%,50V,GP,TP,4x7,5           C4N25         BY130027         2202-002037         C-CERAMIC, MLC-AXIAL:100nF,80-20%,50V,Y5V           C501         BY130273         2401-000414         C-AL:10LF,20%,50V,GP,TP,4x7,5           C502         BY130042         2401-000918         C-AL:12UF,20%,50V,GP,TP,4x7,5           C503         70699092         2401-000918         C-AL:22UF,20%,16V,GP,-6,3x7,5           C504         BY130136         2401-002299         C-AL:4,7uF,20%,50V,GP,TP,5x7,5           C505         70796376         2203-000716         C-CER	C4N13	BY130150	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
C4N16         BY130049         2401-002144         CAL:47UF,20%,16V,GP,TP,5x11,5           C4N17         70795976         2203-000938         C-CERAMIC,CHIP:0.47nF,5%,50V,NP0,TP,2012           C4N18         70795976         2203-000938         C-CERAMIC,CHIP:0.47nF,5%,50V,NP0,TP,2012           C4N19         70693047         2202-000279         C-CERAMIC,DISC:1.5pE,0.25pF,50V,NP0,TP,3           C4N21         BY130261         2201-002069         C-CERAMIC,DISC:1.5pE,0.25pF,50V,NPO,TP,4           C4N23         BY130042         2401-000598         C-AL:1uE,20%,50V,GP,TP,4x7.5           C4N24         BY130042         2401-000598         C-AL:1uE,20%,50V,GP,TP,4x7.5           C4N24         BY130027         2202-002037         C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V           C501         BY130042         2401-000598         C-AL:1uE,20%,50V,GP,TP,4x7.5           C502         BY130042         2401-000598         C-AL:1uE,20%,50V,GP,TP,4x7.5           C503         70699092         2401-000598         C-AL:1uE,20%,50V,GP,TP,4x7.5           C504         BY130136         2401-000299         C-AL:24,7uE,20%,50V,GP,TP,4x7.5           C505         70796281         2203-000260         C-CERAMIC,CHIP:3,00V,AP,TP,2012           C506         70699092         2401-000918         C-AL:22uE,20%,16V,GP,-6					
C4N17         70795976         2203-000938         C-CERAMIC, CHIP; 0.47nE,596,50V,NPO,TP,2012           C4N18         70795976         2203-000938         C-CERAMIC, CHIP; 0.47nE,596,50V,NPO,TP,2012           C4N19         70693047         2202-000279         C-CERAMIC, MLC-AXIAL; 47pE,5%,50V,NPO,TP,4           C4N21         BY130261         2201-002069         C-CERAMIC, DISC; 1.5pE,0.25pE,50V,NPO,TP,4           C4N22         BY130042         2401-000598         C-AL; 1uE,20%,50V,GP,TP,4x7,5           C4N24         BY130042         2401-000598         C-AL; 1uE,20%,50V,GP,TP,4x7,5           C4N25         BY130027         2202-002037         C-CERAMIC, MLC-AXIAL; 100nE,80-20%,50V,Y5V           C501         BY130042         2401-000598         C-AL; 1uE,20%,50V,GP,TP,4x7,5           C502         BY130042         2401-000598         C-AL; 1uE,20%,50V,GP,TP,4x7,5           C503         70699092         2401-000998         C-AL; 1uE,20%,50V,GP,TP,4x7,5           C504         BY130136         2401-00299         C-AL; 2uE,20%,16V,GP,TP,4x7,5           C505         70796281         2203-000260         C-CERAMIC,CHIP; 10nE, 10%,50V,X7R,TP,2012           C506         70699092         2401-000918         C-AL; 2uE,20%,16V,GP,-6.3x7,5           C507         70699092         2401-000918         C-					
C4N18 70795976 2203-000938 C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012 C4N19 70693047 2202-000279 C-CERAMIC,MIC-AXIAL;47pF,5%,50V,SL,TR.3. C4N21 BY130261 2201-002069 C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4 C4N22 BY130041 2201-002069 C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4 C4N23 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C4N24 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C4N25 BY130027 2202-002037 C-CERAMIC,MIC-AXIAL;100nF,80-20%,50V,Y5V C501 BY130273 2401-000414 C-AL;10uF,20%,16V,GP,TP,4x7,5 C502 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C503 BY130136 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C504 BY130136 2401-000918 C-AL;2uF,20%,16V,GP,-6,3x7,5 C505 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C506 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6,3x7,5 C507 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6,3x7,5 C508 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-003107 C-AL;47uF,20%,16V,GP,TP,5x7,5 C511 BY130282 2401-003107 C-AL;47uF,20%,16V,GP,TB,5x7,5 C512 BY130011 2203-00165 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,2012 C513 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C514 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C515 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C516 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C517 BY130074 2203-000891 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,2012 C517 BY130074 2203-0000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130074 2203-000079 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130074 2203-000091 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130074 2203-000091 C-CERAMIC,CHIP;3.7nF,10%,50V,X7R,TP,2012 C517 BY130074 2203-000091 C-CERAMIC,CHIP;3.7nF,10%,50V,X7R,TP,2012 C517 BY130074 2203-000091 C-CERAMIC,CHIP;3.7nF,10%,50V,X7R,TP,2012 C517 BY130074 2203-000091 C-CERAMIC,CHIP;3.7nF,10%,50V,X7R,TP,2012					
C4N19         70693047         2202-000279         C-CERAMIC,MLC-AXIAL-47pF,5%,50V,SL,TP,3.           C4N21         BY130261         2201-002069         C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4           C4N23         BY130042         2201-002069         C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4           C4N23         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C4N24         BY130027         2202-002037         C-CERAMIC,MLC-AXIAL:100nF,80-20%,50V,Y5V           C501         BY130273         2401-000414         C-AL;1uF,20%,50V,GP,TP,4x7,5           C502         BY130042         2401-000598         C-AL:1uF,20%,50V,GP,TP,4x7,5           C503         70699092         2401-000918         C-AL:2uF,20%,16V,GP,TP,5x7,5           C504         BY130136         2401-000299         C-AL;2uF,20%,50V,GP,TP,5x7,5           C505         70796281         2203-00260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C506         70699092         2401-000918         C-AL;2uF,20%,16V,GP,-6.3x7,5           C508         BY130174         2203-000891         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C509         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C511         BY130011         2203-0001655         C-CERAMIC,CH					
C4N21 BY130261 2201-002069 C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP.4 C4N22 BY130261 2201-002069 C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP.4 C4N23 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C4N24 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C4N25 BY130027 2202-002037 C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V C501 BY130273 2401-000414 C-AL;10uF,20%,16V,GP,TP,4x7,5 C502 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C503 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C504 BY130136 2401-002299 C-AL;4.7uF,20%,50V,GP,TP,5x7,5 C505 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C506 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C507 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C508 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-003107 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-003107 C-CERAMIC,CHIP;5x7,5 C511 BY130150 2203-000192 C-CERAMIC,CHIP;10nF,480-20%,50V,X7R,TP,201 C512 BY130011 2203-00165 C-CERAMIC,CHIP;10nF,480-20%,50V,X7R,TP,201 C514 BY130042 2401-00598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C515 BY130042 2401-00598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C516 BY130042 2401-00598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012					
C4N23 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C4N24 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C4N25 BY130027 2202-002037 C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V C501 BY130273 2401-000414 C-AL;10uF,20%,16V,GP,TP,4x7,5 C502 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C503 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C505 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C506 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C507 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C508 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-003107 C-AL;47uF,20%,16V,GP,-6.3x7,5 C511 BY130150 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C512 BY130011 2203-000192 C-CERAMIC,CHIP;00nF,480-20%,50V,Y5V,TP, C513 70795075 2202-000797 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201 C516 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,201 C-C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,201 C-C517 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012 C-C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012				C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4	
C4N24 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C4N25 BY130027 2202-002037 C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V C501 BY130273 2401-000414 C-AL;10uF,20%,16V,GP,TP,4x7,5 C502 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C503 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C504 BY130136 2401-002299 C-AL;4.7uF,20%,50V,GP,TP,5x7,5 C505 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C506 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C508 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012 C509 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-003107 C-AL;47uF,20%,16V,GP,TP,5x7,5 C511 BY130150 2203-000192 C-CERAMIC,CHIP;3.0nF,10%,50V,X7R,TP,201 C512 BY130011 2203-001665 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201 C513 70795075 2202-000797 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201 C514 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C515 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C516 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000691 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012					
C4N25 BY130027 2202-002037 C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V C501 BY130273 2401-000414 C-AL;10uF,20%,16V,GP,TP,4x7,5 C502 BY130042 2401-000598 C-AL;11uF,20%,50V,GP,TP,4x7,5 C503 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6,3x7,5 C504 BY130136 2401-002299 C-AL;4.7uF,20%,50V,GP,TP,5x7,5 C505 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C506 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6,3x7,5 C507 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6,3x7,5 C508 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012 C509 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-003107 C-AL;47uF,20%,16V,GP,TP,5x7,5 C511 BY130150 2203-000192 C-CERAMIC,CHIP;10nF,+80-20%,50V,Y5V,TP, C512 BY130011 2203-001665 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201 C513 70795075 2202-000797 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201 C514 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C515 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C516 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012					
C501 BY130273 2401-000414 C-AL;10uF,20%,16V,GP,TP,4x7,5 C502 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C503 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C504 BY130136 2401-002299 C-AL;4.7uF,20%,50V,GP,TP,5x7,5 C505 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C506 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C507 70699092 2401-000918 C-AL;22uF,20%,16V,GP,-6.3x7,5 C508 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012 C509 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C510 BY130282 2401-003107 C-AL;47uF,20%,16V,GP,TP,5x7,5 C511 BY130150 2203-000192 C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP, C512 BY130011 2203-001665 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201 C513 70795075 2202-000797 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201 C514 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C515 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C516 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012					
C502         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C503         70699092         2401-000918         C-AL;2uF,20%,16V,GP,-6.3x7,5           C504         BY130136         2401-002299         C-AL;4.7uF,20%,50V,GP,TP,5x7,5           C505         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C506         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-6.3x7,5           C507         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-6.3x7,5           C508         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012           C509         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C511         BY130150         2203-000192         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C512         BY130011         2203-001665         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,					
C503         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-,6.3x7,5           C504         BY130136         2401-002299         C-AL;4.7uF,20%,50V,GP,TP,5x7,5           C505         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C506         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-,6.3x7,5           C507         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-,6.3x7,5           C508         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012           C509         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C510         BY130282         2401-003107         C-AL;47uF,20%,16V,GP,TP,5x7,5           C511         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C512         BY130011         2203-0001665         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3n					
C505         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C506         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-6.3x7,5           C507         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-6.3x7,5           C508         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012           C509         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C510         BY130282         2401-003107         C-AL;47uF,20%,16V,GP,TP,5x7,5           C511         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C512         BY130011         2203-001665         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C517         BY130174         2203-00891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C506         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-,6.3x7,5           C507         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-,6.3x7,5           C508         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012           C509         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C510         BY130282         2401-003107         C-AL;47uF,20%,16V,GP,TP,5x7,5           C511         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C512         BY130011         2203-001665         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C517         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012		BY130136			
C507         70699092         2401-000918         C-AL;22uF,20%,16V,GP,-6.3x7,5           C508         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012           C509         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C510         BY130282         2401-003107         C-AL;47uF,20%,16V,GP,TP,5x7,5           C511         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C512         BY130011         2203-001665         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C517         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C508         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012           C509         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C510         BY130282         2401-003107         C-AL;47uF,20%,16V,GP,TP,5x7,5           C511         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C512         BY130011         2203-001665         C-CERAMIC,MIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MIC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C517         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C509         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C510         BY130282         2401-003107         C-AL;47uF,20%,16V,GP,TP,5x7,5           C511         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C512         BY130011         2203-001665         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C517         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C510         BY130282         2401-003107         C-AL;47uF,20%,16V,GP,TP,5x7,5           C511         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C512         BY130011         2203-001665         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C517         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C511         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C512         BY130011         2203-001665         C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201           C513         70795075         2202-000797         C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,           C514         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C515         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C516         70796376         2203-000716         C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012           C517         BY130174         2203-000891         C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C512 BY130011 2203-001665 C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201 C513 70795075 2202-000797 C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, C514 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C515 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C516 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C514 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C515 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C516 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012	C512	BY130011		C-CERAMIC,CHIP;0.56nF,10%,50V,X7R,TP,201	
C515 BY130042 2401-000598 C-AL;1uF,20%,50V,GP,TP,4x7,5 C516 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C516 70796376 2203-000716 C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012 C517 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					
C517 BY130174 2203-000891 C-CERAMIC,CHIP;4.7nF,10%,50V,X7R,TP,2012					

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Company	Loc.No.	TSB Parts No.	Reference No.	Description ; Specification	Remark
CALL PURPLESS   FAMILY   CALL PURPLESS   CAL	C519	70796281	2203-000260	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012	
Care	C520	BY130136	2401-002299		
CASE   BYT 30156					
Content					
Commonstrate					
Corp.					
CG290         BY130136         2401-002299         C.ALL 7 ILE 20%, SDV CRT PEAT 5.           CS30         BY130242         2401-003007         C.ALL 7 ILE 20%, SDV CRT PEAT 5.           CS30         BY130242         2401-003007         C.ALL 7 ILE 20%, SDV CRT PEAT 5.           CS31         BY130242         2401-003007         C.ALL 7 ILE 20%, SDV CRT PEAT 5.           CS02         AVP39474         2203-0000609         C.CERAMIC, CHIP P. 207-1076, SDV XFR, TP.2012           CS04         BY130174         2203-0000609         C.CERAMIC, CHIP P. ATE, BIOS, SDV XFR, TP.2012           CS05         AVP36281         2203-000060         C.CERAMIC, CHIP P. ATE, BIOS, SDV XFR, TP.2012           CS06         AVP367974         2203-000076         C.CERAMIC, CHIP P. ATE, BIOS, SDV XFR, TP.2012           CS07         BY130375         2301-000177         C.CERAMIC, CHIP P. 2001, SZV XFR, TP.2012           CS08         AVP36794         2203-000060         C.CERAMIC, CHIP P. 201, BIOS, SDV XFR, TP.2012           CS11         BY130375         2301-000174         C.CERAMIC, CHIP P. 201, BIOS, SDV XFR, TP.2012           CS12         BY130174         2203-000044         C.CERAMIC, CHIP P. 201, BIOS, SDV XFR, TP.2012           CS13         AVP3674         2203-000044         C.CERAMIC, CHIP P. 201, BIOS, SDV XFR, TP.2012           CS					
Color					
Content					
Color					
C603 BY 130 174 2203 600860 C CERAMIC, CHIP. 276 1198, 50V.XTR, T29012 C C604 BY 130 174 2203 600860 C CERAMIC, CHIP. 276 1198, 50V.XTR, T29012 C C606 670 760 81 130 174 2203 600860 C CERAMIC, CHIP. 276 1198, 50V.XTR, T29012 C C606 707 626 1 203 600860 C CERAMIC, CHIP. 276 1198, 50V.XTR, T29012 C C607 87 130 131 240 1 002259 C C CERAMIC, CHIP. 276 1198, 50V.XTR, T29012 C C608 BY 130 130 240 1 002259 C C CERAMIC, CHIP. 276 1198, 50V.XTR, T29012 C C608 BY 130 130 240 1 002259 C C CERAMIC, CHIP. 296 1198, 50V.XTR, T29012 C C608 BY 130 130 200 240 C CERAMIC, CHIP. 296 1198, 50V.XTR, T29012 C C C CERAMIC, CHIP. 296 1198, 50V.XTR, T29012 C C C CERAMIC, CHIP. 296 1198, 50V.XTR, T29012 C C C CERAMIC, CHIP. 296 1198, 50V.XTR, T29012 C C C C C C C C C C C C C C C C C C C					
Company					
Coccession					
Commonstration					
CADD					
Company					
C611 8Y130375 2301-000174 CFLM.PET-158-159-5, 100-VTR.7.2x4 Ox.7.5 mm C612 8Y130150 2203-000069 C-CERAMIC_CHIP 12016-1902-2005, 500 VYSV.TR.TP.2012 C613 70795974 2203-000669 C-CERAMIC_CHIP 2.076-1703, 500 VXF.TR.TP.2012 C614 70795974 2203-000669 C-CERAMIC_CHIP 2.076-1708, 500 VXF.TR.TP.2012 C616 8Y130317 2401-000360 C-CERAMIC_CHIP 2.076-1708, 500 VXF.TR.TP.2012 C617 70796281 2203-000260 C-CERAMIC_CHIP 2.076-1708, 500 VXF.TR.TP.2012 C619 70796281 2203-000260 C-CERAMIC_CHIP 2.076-1708, 500 VXF.TR.TP.2012 C621 70796210 2401-000310 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C622 8Y130373 2203-001137 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C623 7079974 2203-000634 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C624 BY130152 2203-000634 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C625 BY130152 2203-000634 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C626 BY130152 2203-000634 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2013 C627 BY130152 2203-000634 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2013 C628 BY130164 2203-000494 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C633 70796281 2203-000495 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C634 70796281 2203-000495 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C635 BY130166 2203-000495 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C636 BY130166 2203-000495 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C637 70799969 2203-000299 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C640 BY130202 2401-003107 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C640 BY130204 2401-000590 C-CERAMIC_CHIP 3.076-1708, 500 VXF.TR.TP.2012 C640 BY130204 2401-000590 C					
C613 10796974 2203 000192 C CERAMIC, CHIP-2101 1056, 500 X7R TP.2012 C C C C C C C C C C C C C C C C C C C		70795974	2203-000609		
C615 BY30167 2203-000609 C. CERAMIC.CHIP.2.2016.05,50V.XR.TR.2012. C616 70795974 2203-000609 C. CERAMIC.CHIP.1.2.1075,50V.XR.TR.2012. C617 70796212 2401-000560 C. CAL-1.1.2.005,50V.XR.TR.2012. C618 BY30337 2401-000360 C. CAL-1.1.2.005,50V.XR.TR.2012. C619 70796281 2203-000630 C. CERAMIC.CHIP.2.2016.05,50V.XR.TR.2012. C620 27079574 2203-000631 C. CERAMIC.CHIP.2.0.105,50V.XR.TR.2012. C621 BY30337 2401-0003137 C. CERAMIC.CHIP.2.0.105,50V.XR.TR.2012. C622 BY30323 2203-00034 C. CERAMIC.CHIP.2.0.105,50V.XR.TR.2012. C623 10795974 2203-000634 C. CERAMIC.CHIP.2.0.105,50V.XR.TR.2012. C626 BY30152 2203-000634 C. CERAMIC.CHIP.2.0.2016.55,50V.XR.TP.2012. C627 BY30152 2203-000634 C. CERAMIC.CHIP.2.0.2016.55,50V.XR.DR.2011. C628 BY30152 2203-000634 C. CERAMIC.CHIP.2.0.2016.55,50V.XR.DR.2011. C629 BY30167 2203-000634 C. CERAMIC.CHIP.2.0.2016.55,50V.XR.DR.2011. C629 BY30167 2203-000634 C. CERAMIC.CHIP.2.0.2016.55,50V.XR.DR.2011. C629 BY30167 2203-000634 C. CERAMIC.CHIP.0.02016.55,50V.XR.DR.2011. C629 BY30167 2203-000634 C. CERAMIC.CHIP.0.02016.55,50V.XR.DR.2011. C633 70796281 2203-000634 C. CERAMIC.CHIP.0.02016.55,50V.XR.DR.2011. C634 70796281 2203-000639 C. CERAMIC.CHIP.0.02016.55,50V.XR.DR.2012. C634 70796281 2203-000630 C. CERAMIC.CHIP.0.02016.55,50V.XR.DR.2012. C635 BY30164 2203-000630 C. CERAMIC.CHIP.0.02016.55,50V.XR.DR.2012. C636 BY30165 C. 203-000630 C. CERAMIC.CHIP.0.02016.55,50V.XR.TR.2012. C637 PV30282 2401-002010 C. CERAMIC.CHIP.0.016.105.50V.XR.TR.2012. C638 BY30164 2203-000630 C. CERAMIC.CHIP.0.106.105.50V.XR.TR.2012. C639 PV30282 2401-002010 C. CERAMIC.CHIP.0.107.50.50V.XR.TR.2012. C640 BY30180 2203-00079 C. CERAMIC.CHIP.0.107.50.50V.XR.TR.2012. C641 BY30282 2401-002016 C. CERAMIC.CHIP.0.2076.55,50V.XP.DR.2012. C642 PV303180 2203-00079 C. CERAMIC.CHIP.0.2076.55,50V.XP.DR.2012. C643 BY30180 2203-00079 C. CERAMIC.CHIP.0.2076.55,50V.XR.TR.2012. C644 PV303180 2203-00079 C. CERAMIC.CHIP.0.2076.55,50V.XR.TR.2012. C646 PV303049 2401-002146 C. CERAMIC.CHIP.0.1076.55,50V.XR.TR.2012. C647 PV303049 2401-002146 C. CERAMIC.CH					
C616 1979974 2203-000697 C-CERAMIC, CHIP_2161, 1095, 50W,XFR, TP,2012 C617 70796212 2401-000369 C-CERAMIC, CHIP_2261, 1095, 50W,XFR, TP,2012 C618 PY30317 2401-000360 C-CERAMIC, CHIP_2261, 1095, 50W,XFR, TP,2012 C619 70796281 2203-000690 C-CERAMIC, CHIP_2261, 1095, 50W,XFR, TP,2012 C621 70796210 2203-000691 C-CERAMIC, CHIP_2161, 1095, 50W,XFR, TP,2012 C622 PY303373 2203-0011377 C-CERAMIC, CHIP_2161, 1095, 50W,XFR, TP,2012 C623 PY30373 2203-00011377 C-CERAMIC, CHIP_2161, 1095, 50W,XFR, TP,2012 C624 PY30152 2203-000694 C-CERAMIC, CHIP_2261, 1095, 50W,XFR, TP,2012 C626 PY30152 2203-000644 C-CERAMIC, CHIP_010261, 585, 50W,XFR, TP,2011 C627 PY30167 2203-000644 C-CERAMIC, CHIP_010261, 585, 50W,XFR, TP,2011 C628 PY30152 2203-000644 C-CERAMIC, CHIP_010261, 585, 50W,XFR, TP,2011 C629 PY30167 2203-000649 C-CERAMIC, CHIP_010261, 585, 50W,XFR, TP,2011 C633 70796281 2203-000049 C-CERAMIC, CHIP_010261, 585, 50W,XFR, TP,2011 C634 7079681 2203-000499 C-CERAMIC, CHIP_1061, 1095, 50W,XFR, TP,2011 C635 PY30166 2203-000499 C-CERAMIC, CHIP_1061, 1095, 50W,XFR, TP,2011 C636 PY30166 2203-000499 C-CERAMIC, CHIP_1061, 1095, 50W,XFR, TP,2011 C637 PY30166 2203-000499 C-CERAMIC, CHIP_1061, 1095, 50W,XFR, TP,2011 C638 PY30166 2203-000499 C-CERAMIC, CHIP_1061, 1095, 50W,XFR, TP,2011 C637 PY39974 2203-000260 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C638 PY30166 2203-000499 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C639 PY30169 C-2030-000499 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C639 PY30169 C-2030-000499 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C630 PY30169 C-2030-000499 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C631 PY30169 C-2030-000499 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C631 PY30169 C-2030-000499 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C633 PY30169 C-2030-000499 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C634 PY30169 C-2030-000499 C-CERAMIC, CHIP_2061, 1095, 50W,XFR, TP,2011 C637 PY30174 PY30					
6161         70796912         203 000609         C-CERAMIC,CHIP 2276.T0%.500.XTX.TR.2012           618         BY130317         2401-000591         CAL 1100/20%.50VGRTPB.811.5.5           619         70796281         2203 000260         C-CERAMIC,CHIP 70.6170.5,50VX.TR.12012           621         70796210         2401-000118         C-AL 1100/20%.50VGRTPB.811.5.5           622         8Y130373         2203 000137         C-CERAMIC,CHIP 22.15.10           624         8Y130152         2203-000634         C-CERAMIC,CHIP 20.21.65.50VX.TR.12012           6256         8Y130152         2203-000634         C-CERAMIC,CHIP 0.02.21.65%.50VX.NR.17.1201           6267         8Y130152         2203-000634         C-CERAMIC,CHIP 0.02.21.65%.50VX.NR.01.12201           6268         8Y130152         2203-000634         C-CERAMIC,CHIP 0.02.21.65%.50VX.NR.01.12201           6263         8Y130162         2203-000634         C-CERAMIC,CHIP 0.02.21.65%.50VX.NR.01.12201           634         70796281         2203-000634         C-CERAMIC,CHIP 0.02.01.55%.50VX.NR.01.12201           634         70796281         2203-000634         C-CERAMIC,CHIP 0.02.01.55%.50VX.NR.01.12201           635         8Y130166         2203-000634         C-CERAMIC,CHIP 0.05.50VX.RR.02.01.1201           636         8Y130164         2203-000063					
6617         70796212         2401-0003691         C.AL:106:20%,50VGBPTB.345.25.2mm           6618         8130317         2401-000360         C.AL:106:20%,50VGBPTB.311.5.5           6217         70796281         2203-000260         C.AL:10006:20%,50VGBPTB.031.2.5.5           6223         7079974         2203-000609         C.CERAMIC,CHIP:20E-10%,50VX7R.TP.2012           623         7079974         2203-0006034         C.CERAMIC,CHIP:20E-10%,50VX7R.TP.2012           624         87130152         2203-000634         C.CERAMIC,CHIP:20E-10%,50VX7R.TP.2012           626         87130152         2203-000634         C.CERAMIC,CHIP:20E-10%,50VX7R.TP.2012           626         87130152         2203-000634         C.CERAMIC,CHIP:20E-10%,50VX7R.TP.2012           627         87130152         2203-000634         C.CERAMIC,CHIP:10E-100,50VX7R.TP.2012           628         87130165         2203-000260         C.CERAMIC,CHIP:10E-109,50VX7R.TP.2012           634         70796281         2203-000260         C.CERAMIC,CHIP:20E-10%,50VX7R.TP.2012           635         87130166         2203-000495         C.CERAMIC,CHIP:20E-10%,50VX7R.TP.2012           636         87130166         2203-000495         C.CERAMIC,CHIP:20E-10%,50VX7R.TP.2012           637         70795976         2203-0000496         C.CERAMIC,					
6.619         70796210         2003-0000260         C-CERAMIC, CHIP-TORE, 10%, SDXX/R, TR-2012           6.621         8P130373         2010-000118         C-AL-100004-20%, 10X0CP, TP10012-25, 5           6.623         70795974         2020-000609         C-CERAMIC, CHIP-20E-10%, 50X/TXP, TR-2012           6.624         BY130152         2203-000634         C-CERAMIC, CHIP-0.02E-16%, 50X NPO, TP-201           6.625         BY130152         2203-000634         C-CERAMIC, CHIP-0.02E-16%, 50X NPO, TP-201           6.627         BY130157         2203-000634         C-CERAMIC, CHIP-0.02E-16%, 50X NPO, TP-201           6.629         BY130167         2203-000634         C-CERAMIC, CHIP-0.02E-16%, 50X NPO, TP-201           6.633         70796281         2203-00064         C-CERAMIC, CHIP-106-10%, 50X X7R, TP-2012           6.634         70796281         2203-000260         C-CERAMIC, CHIP-106-10%, 50X X7R, TP-2012           6.635         BY130166         2203-000495         C-CERAMIC, CHIP-206-10%, 50X X7R, TP-2012           6.638         BY130166         2203-000495         C-CERAMIC, CHIP-206-10%, 50X X7R, TP-2012           6.638         BY130169         2203-000699         C-CERAMIC, CHIP-206-10%, 50X X7R, TP-2012           6.640         BY130282         2201-000239         C-CERAMIC, CHIP-206-10%, 50X X7R, TP-2012	C617	70796212	2401-000591	C-AL;1uF,20%,50V,BP,TP,3x5,2.5mm	
6621         70796270         2401-000118         C.AL10000£20%, 10VCRIPT.0012.5.5           6622         87130373         2203-001137         C.CERAMIC,CHIP 29nE-10%, 50VXYR, TR-2012           6624         87130152         2203-000634         C.CERAMIC,CHIP 22nE-10%, 50VXYR, TR-2012           6626         87130152         2203-000634         C.CERAMIC,CHIP-0.022nE,5%, 50VNPO, TP-201           6626         87130152         2203-000634         C.CERAMIC,CHIP-0.022nE,5%, 50VNPO, TP-201           6627         87130167         2203-000634         C.CERAMIC,CHIP-0.022nE,5%, 50VNPO, TP-201           6639         87130162         2203-000634         C.CERAMIC,CHIP-100-10%, 50VX7R, TP-2012           6634         70796281         2203-000260         C.CERAMIC,CHIP-100-10%, 50VX7R, TP-2012           6635         87130166         2203-000495         C.CERAMIC,CHIP-2.2nE,10%, 50VX7R, TP-2012           6636         87130166         2203-000495         C.CERAMIC,CHIP-2.2nE,10%, 50VX7R, TP-2012           6637         70795976         2203-000939         C.CERAMIC,CHIP-2.2nE,10%, 50VX7R, TP-2012           6638         87130136         2203-000239         C.CERAMIC,CHIP-2.2nE,10%, 50VX7R, TP-2012           6640         87130282         2401-002165         C.AL1000,F20%, F20X, F2					
6622         BY130373         2203-000609         C-CERAMIC, CHIP-280F180-850VX-RT, PZ012           6624         BY130152         2203-000634         C-CERAMIC, CHIP-2025F.5%, 50V NPO, TP201           6625         BY130152         2203-000634         C-CERAMIC, CHIP-2025F.5%, 50V NPO, TP201           6626         BY130152         2203-000634         C-CERAMIC, CHIP-10 022F.6%, 50V NPO, TP201           6627         BY130157         2203-000634         C-CERAMIC, CHIP-10 022F.6%, 50V NPO, TP201           6629         BY130167         2203-000644         C-CERAMIC, CHIP-10 170%, 50V X7R, TP2012           6634         70796281         2203-000260         C-CERAMIC, CHIP-10 170%, 50V X7R, TP2012           6635         BY130166         2203-000495         C-CERAMIC, CHIP-20 170, 150%, 50V X7R, TP2012           6636         BY130166         2203-000495         C-CERAMIC, CHIP-20 170, 150%, 50V X7R, TP2012           6637         7079576         2203-000393         C-CERAMIC, CHIP-20 170, 55%, 50V XPR, TP2012           6638         BY130163         2401-002299         C-CERAMIC, CHIP-20 170, 55%, 50V XPR, TP2012           6641         BY130290         2401-002299         C-CERAMIC, CHIP-20 170, 55%, 50V XPR, TP2012           6641         BY130015         2203-000690         C-CERAMIC, CHIP-20 170, 55%, 50V XPR, TP2012					
6624         BY 130152         2203-000634         C-CERAMIC, CHIP-2026, 10%, 50VX, 7R. TP.2012           6626         BY 130152         2203-000634         C-CERAMIC, CHIP-0.0226, 5%, 50VX, PNO, TP.201           6626         BY 130152         2203-000634         C-CERAMIC, CHIP-0.0226, 5%, 50VX, PNO, TP.201           6627         BY 130162         2203-000634         C-CERAMIC, CHIP-1.01%, 50VX, FM. TP.2012           663         70796281         2203-00044         C-CERAMIC, CHIP-1.01%, 50VX, FM. TP.2012           6634         70796281         2203-000260         C-CERAMIC, CHIP-1.01%, 50VX, FM. TP.2012           6635         BY 130166         2203-000495         C-CERAMIC, CHIP-1.01%, 50VX, FM. TP.2012           6636         BY 130166         2203-000949         C-CERAMIC, CHIP-2.01%, 50VX, FM. TP.2012           6637         7079576         2203-00093         C-CERAMIC, CHIP-2.01%, 50VX, FM. TP.2012           6638         BY 130132         2201-003107         C-AL-1.74, EV.20%, 50V, MOR, TP.2012           6640         BY 130282         2401-003107         C-AL-1.74, EV.20%, 50V, MOR, TP.2012           6641         BY 130282         2401-003107         C-AL-1.74, EV.20%, 50V, MOR, TP.2012           6641         BY 13042         2203-000609         C-CERAMIC, CHIP-2.02, EV.50V, SOV, TP.           6651					
6624         BY130152         2203.000634         C.CERAMIC, CHIPO.02261, 5%, 50V NPO. TP.201           6626         BY130152         2203.000634         C.CERAMIC, CHIPO.02261, 5%, 50V NPO. TP.201           6627         BY130152         2203.000634         C.CERAMIC, CHIPO.02261, 5%, 50V NPO. TP.201           6629         BY130167         2203.000634         C.CERAMIC, CHIP.161, 10%, 50V X7R, TP.2012           633         70796281         2203.000240         C.CERAMIC, CHIP.161, 10%, 50V X7R, TP.2012           635         BY130166         2203.000249         C.CERAMIC, CHIP.161, 10%, 50V X7R, TP.2012           636         BY130166         2203.000495         C.CERAMIC, CHIP.261, 10%, 50V X7R, TP.2012           637         70795761         2203.00038         C.CERAMIC, CHIP.20, 176, 5%, 50V, NPO, TP.2012           638         BY130136         2401.002299         C.CERAMIC, CHIP.20, 176, 5%, 50V, NPO, TP.2012           640         BY130282         2401.002165         C.AL.470, 20%, 50V, CR, TP.5x7, 5           641         BY130282         2401.002165         C.AL.470, E.20%, 50V, CR, TP.5x7, 5           644         TS131473         2203.000699         C.CERAMIC, CHIP.20, E.76, 5%, 50V, NPO, TP.2012           645         7079574         2203.000690         C.CERAMIC, CHIP.20, FP.6, 337, 5           651					
6626         BY130152         2203-000634         C-CERAMIC,CHIP-10.022nE,5%,50VMPO,TP,201           6627         BY130167         2203-000444         C-CERAMIC,CHIP-10nE,10%,50V.XTR,TP,2012           6633         70796281         2203-000260         C-CERAMIC,CHIP-10nE,10%,50V.XTR,TP,2012           6634         70796281         2203-000260         C-CERAMIC,CHIP-10nE,10%,50V.XTR,TP,2012           635         BY130166         2203-000495         C-CERAMIC,CHIP-2,2nE,10%,50V.XTR,TP,2012           6363         P0795976         2203-000938         C-CERAMIC,CHIP-2,2nE,10%,50V.XTR,TP,2012           637         70795973         2203-000938         C-CERAMIC,CHIP-10,1nE,50%,50V.XTR,TP,2012           638         BY130136         2401-002299         C-CERAMIC,CHIP-10,1nE,50%,50V.XTR,TP,2012           640         BY130280         2401-003107         C-AL.47UE,20%,50V.GP,TP,547,5           641         BY130183         2203-000155         C-CERAMIC,CHIP-10,22nE,50%,50V.NPO,TP,2012           644         75131473         2203-000059         C-CERAMIC,CHIP-10,0nE,800.20%,50V.XYR,TP,2012           655         70795974         2203-000609         C-CERAMIC,CHIP-22nE,10%,50V.XYR,TP,2012           652         70795974         2203-000609         C-CERAMIC,CHIP-22nE,10%,50V.XYR,TP,2012           6690         BY130004		BY130152	2203-000634		
C-CERAMIC, CHIP-10, 0226, 5%, 50W,PPO,TP,201					
6629         BY30167         2203-000260         C-CERAMIC, CHIP-106, 10%, 50W XZR, TP2012           634         70796281         2203-000260         C-CERAMIC, CHIP-106, 10%, 50W XZR, TP2012           635         BY30166         2203-000260         C-CERAMIC, CHIP-2, 26, 10%, 50W XZR, TP2012           636         BY130166         2203-00095         C-CERAMIC, CHIP-2, 26, 10%, 50W XZR, TP2012           637         70795976         2203-00093         C-CERAMIC, CHIP-2, 26, 10%, 50W XZR, TP2012           643         8Y130136         2401-002399         C-AL-4, 74E-20%, 50W CPT, ESX, 5           640         BY130280         2401-002107         C-AL-47UE, 20%, 16W CPT, ESX, 5           641         BY130280         2401-002107         C-AL-10L0LE, 20%, 16W CPT, ESX, 5           644         ZS31473         2203-000595         C-CERAMIC, CHIP-10L, 26, 5%, 50W NPO, TP, 2012           646         BY130150         2203-000695         C-CERAMIC, CHIP-10L, 26, 5%, 50W NPO, TP, 2012           665         70795974         2203-000609         C-CERAMIC, CHIP-22R, 10%, 50W XZR, TR, 2012           665         70795974         2203-000609         C-CERAMIC, CHIP-22R, 10%, 50W XZR, TR, 2012           6691         70796281         2203-000260         C-CERAMIC, CHIP-22R, 10%, 50W XZR, TR, 2012           6692         BY13001					
6634         70796281         2203-000260         C-CERAMIC, CHIP-10nF, 10%, 50W X7R, TP2012           6635         8730166         2203-000495         C-CERAMIC, CHIP-2, 2nF, 10%, 50W X7R, TP2012           6636         87130166         2203-000495         C-CERAMIC, CHIP-2, 2nF, 10%, 50W X7R, TP2012           6637         70795976         2203-000938         C-CERAMIC, CHIP-2, 2nF, 10%, 50W X7R, TP2012           6638         8Y130136         2401-002299         C-AL-4, 7uF, 20%, 50W, GP, TP, 53W, 50W, NPO, TP, 2012           6640         8Y130282         2401-003107         C-AL-4, 7uF, 20%, 50W, GP, TP, 53W, 50W, NPO, TP, 2012           6641         8Y130282         2401-003105         C-AL-10uF, 20%, 16W, GP, TP, 63X, 75           6644         78730473         2203-000059         C-CERAMIC, CHIP-0, 22nF, 59%, 50W, NPO, TP, 2012           6646         8Y130150         2203-000099         C-CERAMIC, CHIP-0, 22nF, 59%, 50W, XPO, TP, 2012           6651         70795974         2203-000009         C-CERAMIC, CHIP-22nF, 10%, 50W, XPR, TP, 2012           6652         70795942         2203-000009         C-CERAMIC, CHIP-22nF, 10%, 50W, XPR, TP, 2012           6690         8Y130015         2401-001479         C-AL-47uE, 20%, 16W, 6W, XPR, TP, 2012           6691         70796281         2203-000060         C-CERAMIC, CHIP-10nF, 10%, 50W, XPR,					
6635         BY130166         2203-000495         C-CERAMIC, CHIP-2.2Ft-10%, 50V.X7R, TP.2012           6637         70795976         2203-000938         C-CERAMIC, CHIP-2.4Ft-10%, 50V.XPR, TP.2012           6638         BY130136         2201-002299         C-At.4.7 Jul. 2008, 50V.QFTPEX7,5           6639         70795969         2203-000239         C-CERAMIC, CHIP-0.1 ThE,5%, 50V.NPO,TP.2012           6640         BY130280         2401-002105         C-AL.47 Jul. 2008, 16V.QFTPES.37,5           6641         BY130280         2401-002105         C-AL.47 Jul. 2008, 16V.QFTPES.37,5           6646         BY130150         2203-000595         C-CERAMIC, CHIP-0.2 ThE,5%, 50V.NPO,TP.2012           6646         BY130150         2203-000069         C-CERAMIC, CHIP-22P.10%, 50V.X7R, TP.2012           6651         70795974         2203-000069         C-CERAMIC, CHIP-22P.10%, 50V.X7R, TP.2012           6652         70795974         2203-000069         C-CERAMIC, CHIP-22P.10%, 50V.X7R, TP.2012           6691         70796281         2203-000020         C-CERAMIC, CHIP-22P.10%, 50V.X7R, TP.2012           6692         BY130015         2401-001479         C-AL.470E.20%, 10V.QFTP           6693         BY130015         2401-001479         C-AL.470E.20%, 10V.QFTP           6694         70795281         2203					
6636         BY130166         2203-000498         C-CERAMIC, CHIP-2 267, 10%, 50V,XPR, TP,2012           C638         BY130136         2401-002299         C-AL-4,7uF,20%, 50V,GPT,E5X,7.5           C640         BY130282         2401-002107         C-AL-4,7uF,20%, 50V,GPT,E5X,7.5           C641         BY130282         2401-002105         C-AL-47UF,20%, 16V,GPT,E5X,7.5           C641         BY130280         2401-002105         C-AL-10UF,20%, 16V,GPT,E5X,7.5           C644         PS51473         2203-0000595         C-CERAMIC,CHIP-02AF,E5X,50V,NPO,TP,2012           C646         BY130150         2203-000192         C-CERAMIC,CHIP-02AF,E5X,50V,NYT,TP,2012           C651         70795974         2203-000609         C-CERAMIC,CHIP-22AF,10%,50V,XYR,TP,2012           C652         70795974         2203-000609         C-CERAMIC,CHIP-22AF,10%,50V,XYR,TP,2012           C690         BY130002         2203-000609         C-CERAMIC,CHIP-22AF,10%,50V,XYR,TP,2012           C691         70796281         2203-000260         C-CERAMIC,CHIP-24AF,10V,50V,XYR,TP,2012           C692         BY130049         2401-001479         C-AL-470E,20%,10V,GP,TP,5x11,5           C693         BY130049         2401-001479         C-AL-470E,20%,10V,GP,TP,-20           C695         70795574         2203-00069         C-CERAMI					
6637         70795976         2203-000938         C-CERAMIC, CHIP-0.47nF,5%,50V,NP0,TP,2012           6638         81730136         2401-002299         C-AL-3.7uE 20%,50VGPTP5X7,5           6640         8Y130282         2401-003107         C-AL-3.7uE 20%,16VGPTP5X7,5           6641         8Y130282         2401-003107         C-AL-3.7uE 20%,16VGPTP5X7,5           6644         72531473         2203-000595         C-CERAMIC, CHIP-0.22nF,5%,50V,NP0,TP,2012           6646         8Y130150         2203-000099         C-CERAMIC, CHIP-0.22nF,5%,50V,NP0,TP,2012           6651         70795974         2203-000609         C-CERAMIC, CHIP-20AF,10W,50V,XTR,TP,2012           6652         70795974         2203-000609         C-CERAMIC, CHIP-20AF,10W,50V,XTR,TP,2012           6659         8Y130020         2203-00069         C-CERAMIC, CHIP-24DF,10W,50V,XTR,TP,2012           6691         70796281         2203-000609         C-CERAMIC, CHIP-10F,10W,50V,XTR,TP,2012           6692         8Y130049         2401-00144         C-AL-47uE,20W,16V,GP,TP,5x11,5           6693         8Y130049         2401-001479         C-AL-47uE,20W,16V,GP,TP,5x11,5           6694         70795281         2203-00069         C-CERAMIC,CHIP-10G,10W,50V,XTR,TP,2012           6695         707956281         2203-00063         C-CERA					
6638         BY130136         2401-002299         C-AL:A7uE.20%,50V.GPTE.5x7.5           6640         BY130282         2401-003107         C-CERAMIC, CHIP-0.1nE 5%,50V.NPO,TE.2012           6641         BY130280         2401-002165         C-AL:10uE.20%,16V.GPTP6.3x7,5           6644         72531473         2203-000595         C-CERAMIC, CHIP-10.2pT,5%,50V.NPO,TP,2012           6646         BY130150         2203-000699         C-CERAMIC, CHIP:20.2pT,5%,50V.NPO,TP,2012           6651         70795974         2203-000609         C-CERAMIC, CHIP:22pT,10%,50V.X7R,TP,2012           6652         70795974         2203-000609         C-CERAMIC, CHIP:22pT,10%,50V.X7R,TP,2012           6693         70795074         2203-000609         C-CERAMIC, CHIP:20pT,10%,50V.X7R,TP,2012           6690         BY130002         2203-000899         C-CERAMIC, CHIP:20pT,10%,50V.X7R,TP,2012           6691         70796281         2203-000260         C-CERAMIC, CHIP:10pT,10%,50V.X7R,TP,2012           6692         BY130049         2401-001479         C-AL:470E,20%,16V.GPTP,-1           6693         70795974         2203-000260         C-CERAMIC, CHIP:20pT,10%,50V.X7R,TP,2012           6694         70796281         2203-000260         C-CERAMIC, CHIP:20pT,10%,50V.X7R,TP,2012           6696         70796281         2203-0003					
6639         70795969         2203-000239         C-CERAMIC, CHIP-0.1nF,5%,50V,NPO,TP.2012           C641         BY130280         2401-002165         C-AL:47uE,29%,16VGP,TP5.37.5           C644         72531473         2203-000595         C-EERAMIC, CHIP-10.22nF,5%,50V,NPO,TP.2012           C646         BY130150         2203-000699         C-CERAMIC, CHIP-10.27nF,5%,50V,X7R,TP.2012           C652         70795974         2203-000609         C-CERAMIC, CHIP-122nF, 10%,50V,X7R,TP.2012           C652         70795974         2203-000609         C-CERAMIC, CHIP.22nF, 10%,50V,X7R,TP.2012           C653         70795974         2203-000609         C-CERAMIC, CHIP.22nF, 10%,50V,X7R,TP.2012           C690         BY130002         2203-000609         C-CERAMIC, CHIP.20%,50V,X7R,TP.2012           C691         70796281         2203-000260         C-CERAMIC, CHIP.20F,10%,50V,X7R,TP.2012           C692         BY130049         2401-002144         C-AL:47uF.20%,16VGP,TP.5x11.5           C694         70795974         2203-000609         C-CERAMIC, CHIP.20F,10%,50V,X7R,TP.2012           C695         707958281         2203-000609         C-CERAMIC, CHIP.20F,10%,50V,X7R,TP.2012           C694         70795974         2203-000609         C-CERAMIC, CHIP.20F,10%,50V,X7R,TP.2012           C695         70795281					
6641         BY130280         2401-002165         C-AL:100uF;20%, 16VGP;TP6;3x7.5           C644         72531473         2203-000192         C-CERAMIC, CHIP;20zF;5%, 550V,NP0,TP;2012           C651         70795974         2203-000609         C-CERAMIC, CHIP;22nF, 10%, 50V,X7R, TP;2012           C652         70795974         2203-000609         C-CERAMIC, CHIP;22nF, 10%, 50V,X7R, TP;2012           C653         70795974         2203-000609         C-CERAMIC, CHIP;22nF, 10%, 50V,X7R, TP;2012           C690         BY130020         2203-000260         C-CERAMIC, CHIP;22nF, 10%, 50V,X7R, TP;2012           C691         70796281         2203-000260         C-CERAMIC, CHIP;10nF, 10%, 50V,X7R, TP;2012           C692         BY130015         2401-001479         C-AL:470E,20%, 16V,GP;TP;5x11,5           C694         70795363         2202-000791         C-CERAMIC, CHIP;22nF, 10%, 50V,X7R, TP;2012           C695         70796281         2203-000260         C-CERAMIC, CHIP;22nF, 10%, 50V,X7R, TP;2012           C696         70796281         2203-000683         C-CERAMIC, CHIP;00F, 10%, 50V,X7R, TP;2012           C6P01         70796281         2203-000683         C-CERAMIC, CHIP;00,TP, 10%, 50V,X7R, TP;2012           C6P03         BY130154         2203-000683         C-CERAMIC, CHIP;00,TP, 50V,50V,NPO, TP;201           C6P10 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
6644         72531473         2203-000595         C-CERAMIC, CHIP: 0.22n, E.58, 50V,NP0,TP,2012           C646         BY130150         2203-000699         C-CERAMIC, CHIP: 100nf. +80-20%,50V,X7R, TP,2012           C652         70795974         2203-000609         C-CERAMIC, CHIP: 22n, F.10%,50V,X7R, TP,2012           C653         70795974         2203-000609         C-CERAMIC, CHIP: 22n, F.10%,50V,X7R, TP,2012           C690         BY130020         2203-000899         C-CERAMIC, CHIP: 47n, F.10%,50V,X7R, TP,2012           C691         70796281         2203-000899         C-CERAMIC, CHIP: 47n, F.10%,50V,X7R, TP,2012           C692         BY130049         2401-002144         C-AL: 47uF,20%, 16V,GP,TP,5x11,5           C693         BY130015         2401-001479         C-AL: 47uF,20%, 16V,GP,TP,5x11,5           C694         70795363         2202-000791         C-CERAMIC, CHIP: 10n,F10%,50V,X7R, TP,2012           C695         70795281         2203-000260         C-CERAMIC, CHIP: 10n,F10%,50V,X7R, TP,2012           C6904         BY130154         2203-000863         C-CERAMIC, CHIP: 10n,F10%,50V,X7R, TP,2012           C6P01         70796281         2203-000863         C-CERAMIC, CHIP: 10n,F10%,50V,X7R, TP,2011           C6P02         BY130154         2203-000863         C-CERAMIC, CHIP: 100,F10%,50V,SVP,TP,					
6646         BY130150         2203-000192         C-CERAMIC, CHIP:20nF, 190, 50V,X7R, TP,2012           C651         70795974         2203-000609         C-CERAMIC, CHIP:22nF, 10%, 50V,X7R, TP,2012           C652         70795974         2203-000609         C-CERAMIC, CHIP:22nF, 10%, 50V,X7R, TP,2012           C690         BY130020         2203-000609         C-CERAMIC, CHIP:10mF, 10%, 50V,X7R, TP,2012           C691         70796281         2203-000260         C-CERAMIC, CHIP:10nF, 10%, 50V,X7R, TP,2012           C692         BY130049         2401-002144         C-AL:47UE,20%, 10V,GEPTP,-7           C693         BY130015         2401-001479         C-AL:47UE,20%, 10V,GEPTP,-7           C694         7079574         2203-000609         C-CERAMIC,CHIP:10mF, 10%, 50V,X7R, TP,2012           C695         70795363         2202-000609         C-CERAMIC,CHIP:10mF, 10%, 50V,X7R, TP,2012           C696         70796281         2203-000260         C-CERAMIC,CHIP:10mF, 10%, 50V,X7R, TP,2012           C6P01         70796281         2203-000683         C-CERAMIC,CHIP:0027nF,5%, 50V,M7R, TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC,CHIP:0027nF,5%, 50V,MPO,TP,201           C6P05         BY130042         2401-00598         C-AL:110F,20%,50V,GP,TP,4x7,5           C6P11         BY130042 <td></td> <td></td> <td></td> <td></td> <td></td>					
6651         70795974         2203-000609         C-CERAMIC, CHIP:22nF, 10%, 50V,X7R, TP,2012           C652         70795974         2203-000609         C-CERAMIC, CHIP:22nF, 10%, 50V,X7R, TP,2012           C690         BY130020         2203-000989         C-CERAMIC, CHIP:22nF, 10%, 50V,X7R, TP,2012           C691         70796281         2203-000260         C-CERAMIC, CHIP:10nF, 10%, 50V,X7R, TP,2012           C692         BY130015         2401-001479         C-AL:47UF,20%, 16V,GP,TP,5x11,5           C693         BY130015         2401-001479         C-AL:47UF,20%, 16V,GP,TP,5x11,5           C694         70795363         2202-000791         C-CERAMIC,CHIP:22nF,10%, 50V,X7R, TP,2012           C696         70796281         2203-000260         C-CERAMIC,CHIP:10nF, 10%, 50V,X7R, TP,2012           C6P01         70796281         2203-000683         C-CERAMIC,CHIP:10nF, 10%, 50V,X7R, TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC,CHIP:0.027nF,5%,50V,NPO,TP,201           C6P08         BY130154         2203-000683         C-CERAMIC,CHIP:0.027nF,5%,50V,NPO,TP,201           C6P10         BY130042         2401-000598         C-AL:1uF,20%,50V,GP,TP4x7,5           C6P11         BY130042         2401-000598         C-AL:1uF,20%,50V,GP,TP4x7,5           C6P12         BY130049					
6653         70795974         2203-000609         C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012           C690         BY130020         2203-000989         C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012           C691         70796281         2203-000260         C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012           C692         BY130015         2401-001479         C-AL:47uF,20%,16V,GP,TP,5x11,5           C694         70795974         2203-000609         C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012           C695         70795363         2202-000791         C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012           C696         70796281         2203-000260         C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012           C6P01         70796281         2203-000683         C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC,CHIP:0.027nF,5%,50V,NP0,TP,201           C6P08         BY130173         2202-000286         C-CERAMIC,MLC-AXIAL:56pF,5%,50V,NP0,TP,201           C6P11         BY130042         2401-000598         C-AL:1uE,20%,50V,GP,TP,4x7,5           C6P12         BY130049         2401-002144         C-AL:47UE,20%,50V,GP,TP,4x7,5           C6P14         BY130045         2203-000102         C-CERAMIC,CHIP:10nF,10%,50V,YSV,TP,           C6P14         BY130050         2203-0001					
C690         BY130020         2203-000989         C-CERAMIC,CHIP:47nF,10%,50V,X7R,TP,2012           C691         70796281         2203-000260         C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012           C692         BY130015         2401-001479         C-AL:47uF,20%,16V,GP,TP,5x11,5           C694         7079574         2203-000609         C-CERAMIC,CHIP:22nF,10%,50V,X7R,TP,2012           C695         70795363         2202-000791         C-CERAMIC,MLC-AXIAL;150pF,10%,50V,X7R,TP,2012           C696         70796281         2203-000260         C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012           C6P01         70796281         2203-000260         C-CERAMIC,CHIP:10nF,10%,50V,X7R,TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC,CHIP:0.027nF,5%,50V,NPO,TP,201           C6P05         BY130173         2202-000286         C-CERAMIC,CHIP:0.027nF,5%,50V,NPO,TP,201           C6P10         BY130042         2401-000598         C-AL:1uE,20%,50V,GP,TP,4XT,5           C6P11         BY130042         2401-000598         C-AL:1uE,20%,50V,GP,TP,4XT,5           C6P13         BY130150         2203-001002         C-CERAMIC,CHIP:100nF,180-20%,50V,YSV,TP,           C6P13         BY130345         2203-001002         C-CERAMIC,CHIP:100nF,180-50V,XYR,TP,2012           C701         BY130365         2	C652	70795974			
6691         70796281         2203-000260         C-CERAMIC, CHIP-10nF, 10%, 50V, X7R, TP, 2012           C692         BY130049         2401-002144         C-AL:470E, 20%, 16V, GP, TP, 5x11,5           C693         BY130015         2401-001479         C-AL:470E, 20%, 10V, GP, TP, 5x1,-7           C694         70795974         2203-000609         C-CERAMIC, CHIP:22nF, 10%, 50V, X7R, TP, 2012           C695         70795363         2202-000791         C-CERAMIC, CHIP:10nF, 10%, 50V, X7R, TP, 2012           C696         70796281         2203-000260         C-CERAMIC, CHIP:10nF, 10%, 50V, X7R, TP, 2012           C6P01         70796281         2203-000683         C-CERAMIC, CHIP:0.027nF, 5%, 50V, NPO, TP, 201           C6P05         BY130154         2203-000683         C-CERAMIC, CHIP:0.027nF, 5%, 50V, NPO, TP, 201           C6P08         BY130173         2202-000286         C-CERAMIC, CHIP:0.027nF, 5%, 50V, NPO, TP, 201           C6P10         BY130042         2401-000598         C-AL:1uF, 20%, 50V, GP, TP, 4x7, 5           C6P11         BY130042         2401-000598         C-AL:1uF, 20%, 50V, GP, TP, 5x11, 5           C6P12         BY130050         2203-000192         C-CERAMIC, CHIP:0.047nF, 5%, 50V, NPO, TP, 201           C701         BY130015         2203-000102         C-CERAMIC, CHIP:0.047nF, 5%, 50V, NPO, TP, 201 <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
C692         BY130049         2401-002144         C-AL:47UF,20%,10V,GP,TP,5x11,5           C693         BY130015         2401-001479         C-AL:47UF,20%,10V,GP,TP,           C694         70795974         2203-000609         C-CERAMIC, CHIP:2DF,10%,50V,YSP,TP           C695         70795363         2202-000791         C-CERAMIC, CHIP:10R,10%,50V,XTR,TP,2012           C6P06         70796281         2203-000260         C-CERAMIC, CHIP:10R,10%,50V,XTR,TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC, CHIP:0.027R,5%,50V,NP0,TP,201           C6P05         BY130173         2202-000286         C-CERAMIC, CHIP:0.027R,5%,50V,NP0,TP,201           C6P08         BY130042         2401-000598         C-AL:10F,20%,50V,GP,TP,4x7,5           C6P11         BY130042         2401-000598         C-AL:10F,20%,50V,GP,TP,4x7,5           C6P13         BY130150         2203-000192         C-CERAMIC,CHIP:100R,+80-20%,50V,VSV,TP,           C6P14         BY130345         2203-000192         C-CERAMIC,CHIP:100R,+80-20%,50V,YSV,TP,           C6P14         BY130345         2203-000102         C-CERAMIC,CHIP:100R,+80-20%,50V,YSV,TP,           C6P13         BY130167         2203-000102         C-CERAMIC,CHIP:100R,50V,YSR,TP,2012           C702         70796281         2203-000173 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
C693         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C694         70795974         2203-000609         C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012           C696         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C6P01         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P05         BY130154         2203-000683         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P08         BY130173         2202-000286         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P10         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4X7,5           C6P11         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4X7,5           C6P12         BY130150         2203-000102         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C6P13         BY130345         2203-001002         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C6P14         BY130345         2203-000102         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C702         70796281         2203-000444					
C695         70795363         2202-000791         C-CERAMIC,MLC-AXIAL;150pF,10%,50V,Y5P,TP           C696         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,201           C6P05         BY130154         2203-000683         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P08         BY130173         2202-000286         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P10         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P11         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P12         BY130049         2401-002144         C-AL;47uF,20%,16V,GP,TP,5x11,5           C6P13         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,18%-20%,50V,Y5V,TP,           C6P14         BY130345         2203-001002         C-CERAMIC,CHIP;0.047nF,5%,50V,V7P,TP,201           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C702         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C703         BY130262         2202-000173         C-CERAMIC,CHIP;10mF,5%,50V,X7R,TP,2012,           C816         BY130276         2401-001074					
C696         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C6P01         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P05         BY130173         2202-000286         C-CERAMIC,CHIP;0.027nF,5%,50V,SD,TP,12.01           C6P08         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P11         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P12         BY130049         2401-002144         C-AL;4TuF,20%,50V,GP,TP,4x7,5           C6P13         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C6P14         BY130345         2203-001002         C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,-,-           C702         70796281         2203-000240         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,-           C704         BY130262         2202-000173         C-CERAMIC,CHIP;10nF,10%,50V,Y5P,TP,1           C705         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C806         BY130276         2401-001074	C694	70795974	2203-000609	C-CERAMIC,CHIP;22nF,10%,50V,X7R,TP,2012	
C6P01         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C6P04         BY130154         2203-000683         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P05         BY130173         2202-000286         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P08         BY130173         2202-000286         C-CERAMIC,MIC-AXIAL;56pF,5%,50V,SL,TP,1           C6P10         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P11         BY130049         2401-002144         C-AL;47uF,20%,16V,GP,TP,5x11,5           C6P12         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,V5V,TP,           C6P14         BY130345         2203-001002         C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C702         70796281         2203-000444         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,-           C703         BY130167         2203-000444         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,-           C704         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C705         BY130268         2203-000237         C-CERAMIC,GHIP;100P,5%,50V,Y5P,TP,1           C816         BY130276         2401-					
C6P04         BY130154         2203-000683         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P08         BY130154         2203-000286         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P08         BY1300173         2202-000286         C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1           C6P10         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P11         BY130049         2401-002144         C-AL;47uF,20%,16V,GP,TP,5x11,5           C6P12         BY130049         2401-002144         C-AL;47uF,20%,16V,GP,TP,5x11,5           C6P13         BY130150         2203-0001092         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C6P14         BY1300345         2203-001002         C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,-;-           C702         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012,-           C704         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C806         BY130288         2203-000237         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C816         BY130378         2401-001074         C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2           C817         BY1300175         2401-001074<					
C6P05         BY130154         2203-000683         C-CERAMIC,CHIP;0.027nF,5%,50V,NP0,TP,201           C6P08         BY130173         2202-000286         C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1           C6P10         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P11         BY130049         2401-002144         C-AL;1uF,20%,16V,GP,TP,5x11,5           C6P12         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,VFV,TP,           C6P14         BY130345         2203-001002         C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,-,-           C702         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C703         BY130167         2203-000444         C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-           C704         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C806         BY130262         2203-000237         C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,           C816         BY130276         2401-001074         C-AL;220uF,20%,16V,GP,TP,8x11.5,5           C818         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C821         BY130015         2401-001479<					
C6P10         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P11         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P12         BY130049         2401-002144         C-AL;47uF,20%,16V,GP,TP,5x11,5           C6P13         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C6P14         BY130345         2203-001002         C-CERAMIC,CHIP;100nF,10%,50V,NP0,TP,201           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C702         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C703         BY130167         2203-000444         C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-           C704         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C705         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C816         BY130276         2401-001074         C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2           C817         BY130378         2401-000810         C-AL;220uF,20%,16V,GP,TP,8x11.5,5           C818         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C821         BY130015         2401-001479         C-A					
C6P11         BY130042         2401-000598         C-AL;1uF,20%,50V,GP,TP,4x7,5           C6P12         BY130049         2401-002144         C-AL;47uF,20%,16V,GP,TP,5x11,5           C6P13         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C6P14         BY1300345         2203-001002         C-CERAMIC,CHIP;100nF,5%,50V,NPO,TP,201           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C702         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C703         BY130167         2203-000444         C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-           C704         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C806         BY130262         2202-000173         C-CERAMIC,CHIP;100P,5%,50V,NPO,TP,2012,           C816         BY130276         2401-001074         C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2           C817         BY130378         2401-000810         C-AL;220uF,20%,16V,GP,TP,8x11.5,5           C818         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C821         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C822         70795969         2203-000239         C-CERA		BY130173			
C6P12         BY130049         2401-002144         C-AL:47uF,20%,16V,GP,TP,5x11,5           C6P13         BY130150         2203-000192         C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,           C6P14         BY130345         2203-001002         C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201           C701         BY130015         2401-001479         C-AL:470uF,20%,10V,GP,TP,           C702         70796281         2203-00260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C703         BY130167         2203-000444         C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-           C704         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C705         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C806         BY130208         2203-000237         C-CERAMIC,CHIP;100P,5%,50V,NP0,TP,2012,           C816         BY130276         2401-001074         C-AL:20.33uF,20%,50V,BP,TP,4x5mm,2           C817         BY130378         2401-000810         C-AL:220uF,20%,16V,GP,TP,8x11.5,5           C818         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C821         BY130015         2401-001479         C-AL:470uF,20%,10V,GP,TP,           C822         70795969         2203-000239					
C6P13 BY130150 2203-000192 C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP, C6P14 BY130345 2203-001002 C-CERAMIC,CHIP;0.047nF,5%,50V,NP0,TP,201 C701 BY130015 2401-001479 C-AL;470uF,20%,10V,GP,TP,-,- C702 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C703 BY130167 2203-000444 C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,- C704 BY130262 2202-000173 C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 C705 BY130262 2202-000173 C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 C806 BY130208 2203-000237 C-CERAMIC,CHIP;100pF,5%,50V,NP0,TP,2012, C816 BY130276 2401-001074 C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2 C817 BY130378 2401-000810 C-AL;220uF,20%,16V,GP,TP,8x11.5,5 C818 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C821 BY130015 2401-001479 C-AL;470uF,20%,10V,GP,TP,-,- C822 70795969 2203-000239 C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012					
C6P14         BY130345         2203-001002         C-CERAMIC,CHIP;0.047nF,5%,50V,NPO,TP,201           C701         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C702         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C703         BY130167         2203-000444         C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012-           C704         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C705         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C806         BY13028         2203-000237         C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,           C816         BY130276         2401-001074         C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2           C817         BY130378         2401-000810         C-AL;220uF,20%,16V,GP,TP,8x11.5,5           C818         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C821         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,           C822         70795969         2203-000239         C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012					
C702         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C703         BY130167         2203-000444         C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-           C704         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C705         BY130262         2202-000173         C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1           C806         BY130208         2203-000237         C-CERAMIC,CHIP;100PF,5%,50V,NPO,TP,2012,           C816         BY130276         2401-001074         C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2           C817         BY130378         2401-000810         C-AL;220uF,20%,16V,GP,TP,8x11.5,5           C818         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C821         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,-,-           C822         70795969         2203-000239         C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012					
C703 BY130167 2203-000444 C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,- C704 BY130262 2202-000173 C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 C705 BY130262 2202-000173 C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 C806 BY130208 2203-000237 C-CERAMIC,CHIP;100P,5%,50V,NPO,TP,2012, C816 BY130276 2401-001074 C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2 C817 BY130378 2401-000810 C-AL;220uF,20%,16V,GP,TP,8x11.5,5 C818 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C821 BY130015 2401-001479 C-AL;470uF,20%,10V,GP,TP,-,- C822 70795969 2203-000239 C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012					
C704 BY130262 2202-000173 C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 C705 BY130262 2202-000173 C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 C806 BY130208 2203-000237 C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012, C816 BY130276 2401-001074 C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2 C817 BY130378 2401-000810 C-AL;220uF,20%,16V,GP,TP,8x11.5,5 C818 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C821 BY130015 2401-001479 C-AL;470uF,20%,10V,GP,TP,-,- C822 70795969 2203-000239 C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012					
C705 BY130262 2202-000173 C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 C806 BY130208 2203-000237 C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012, C816 BY130276 2401-001074 C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2 C817 BY130378 2401-000810 C-AL;220uF,20%,16V,GP,TP,8x11.5,5 C818 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C821 BY130015 2401-001479 C-AL;470uF,20%,10V,GP,TP, C822 70795969 2203-000239 C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012					
C806         BY130208         2203-000237         C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,           C816         BY130276         2401-001074         C-AL;0.33uF,20%,50V,BP,TP,4x5mm,2           C817         BY130378         2401-000810         C-AL;220uF,20%,16V,GP,TP,8x11.5,5           C818         70796281         2203-000260         C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012           C821         BY130015         2401-001479         C-AL;470uF,20%,10V,GP,TP,-,-           C822         70795969         2203-000239         C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012					
C817 BY130378 2401-000810 C-AL;220uF,20%,16V,GP,TP,8x11.5,5 C818 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C821 BY130015 2401-001479 C-AL;470uF,20%,10V,GP,TP, C822 70795969 2203-000239 C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012	C806	BY130208	2203-000237	C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,2012,	
C818 70796281 2203-000260 C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,2012 C821 BY130015 2401-001479 C-AL;470uF,20%,10V,GP,TP, C822 70795969 2203-000239 C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012					
C821 BY130015 2401-001479 C-AL:470uF,20%,10V,GP,TP,-,- C822 70795969 2203-000239 C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012					
C822 70795969 2203-000239 C-CERAMIC,CHIP;0.1nF,5%,50V,NP0,TP,2012					
	C837	BY130344	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	

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Loc.No.	TSB Parts No.	Reference No.	Description ; Specification	Remark
C838	BY130344	2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C841	BY130069	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
C844 C845	BY130344 BY130344	2203-000784 2203-000784	C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012 C-CERAMIC,CHIP;0.33nF,5%,50V,NP0,TP,2012	
C855	BY130069	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
< RESIST	TORS >			
R1P101	BY230025	2001-000855	R-CARBON;5600HM,5%,1/4W,AA,TP,2.4X6.4MM	
R1P102	70795589	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R1P103 R1P104	BY230023 70795659	2001-000036 2001-000027	R-CARBON;3300HM,5%,1/4W,AA,TP,2.4X6.4MM R-CARBON;1000HM,5%,1/4W,AA,TP,2.4X6.4MM	
R1P104	70795516	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R1P106	70795020	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1P107 R1P108	70795684 BY230024	2007-000282 2001-000611	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012 R-CARBON;3.9KOHM,5%,1/4W,AA,TP,2.4X6.4M	
R1SD12	70795993	2001-000811	R-CARBON;1200HM,5%,1/4W,AA,TP,1.8X3.2MM	
R1SD13	BY230155	2001-000784	R-CARBON;47Kohm,5%,1/4W,AE,TP,2.4x6.4mm	
R1SD14	BY230155	2001-000784	R-CARBON;47Kohm,5%,1/4W,AE,TP,2.4x6.4mm	
R1SD15 R1SD16	BY230155 BY230027	2001-000784 2003-000994	R-CARBON;47Kohm,5%,1/4W,AE,TP,2.4x6.4mm R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x	
R1SD31	70795039	2001-000780	R-CARBON;4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SD32	70795005	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SF11 R1SF15	BY230155 70795031	2001-000784 2001-000591	R-CARBON;47Kohm,5%,1/4W,AE,TP,2.4x6.4mm R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R1SF19	70795005	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R1SF20	BY230146	2003-000105	R-METAL OXIDE;0.33ohm,5%,2W,AD,TP,6x16mm	
R1SF21 R1SS10	BY230036 BY230170	2001-000096 2006-000262	R-CARBON(S);1MOHM,5%,1/2W,AA,TP,2.4X6.4M R-CEMENT;2.7ohm,10%,2W,CB,TP,7.5x11x20.	
R1SS11	BY230027	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x	
R1SS13	BY230003	2003-000148	R-METAL OXIDE;1000HM,5%,2W,AE,TP,6X16MM	
R1SS32 R1SS33	70795005 70795640	2001-000429 2004-000869	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R1SS34	70795638	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m	
R301	70795020	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R302 R304	70795515 70795546	2007-000468 2007-001177	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012 R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
R306	70795012	2001-000232	R-CARBON;1.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R308	70795005	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R309 R311	70795536 70795515	2007-000859 2007-000468	R-CHIP;4.3KOHM,5%,1/10W,DA,TP,2012 R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R312	70795520	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012	
R313 R314	70795704 70795050	2007-000931 2001-000924	R-CHIP;4700HM,5%,1/10W,DA,TP,2012 R-CARBON;6800HM,5%,1/8W,AA,TP,1.8X3.2MM	
R314 R315	70795529	2007-000924	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
R316	70795519	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	
R317 R318	70795531 70795531	2007-000766 2007-000766	R-CHIP;3300HM,5%,1/10W,DA,TP;2012	
R320	70795006	2007-000788	R-CHIP;3300HM,5%,1/10W,DA,TP,2012 R-CARBON;10K0HM,5%,1/8W,AA,TP,1.8X3.2MM	
R321	BY230096	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R322 R325	70795319 70795529	2001-000539 2007-000518	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
R326	70795537	2007-000518	R-CHIP;5100HM,5%,1/10W,DA,TP,2012	
R327	70795537	2007-001001	R-CHIP;5100HM,5%,1/10W,DA,TP,2012	
R328 R329	70795589 70699144	2007-000872 2001-000472	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012 R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R330	70795589	2007-000472	R-CHIP;4.7KOHM,5%,176W,AA,TP,1083.2W	
R331	70795525	2007-000572	R-CHIP;2200HM,5%,1/10W,DA,TP,2012	
R332 R333	70795683 70795683	2007-000290 2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012 R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
R334	70795683	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
R335	70795044	2001-000800	R-CARBON;5.1KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R336 R339	70795521 70795357	2007-000409 2001-000258	R-CHIP;15K0HM,5%,1/10W,DA,TP,2012 R-CARBON;1.8K0HM,5%,1/8W,AA,TP,1.8X3.2M	
R341	70795547	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	
R342	70795539	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
R346 R385	70795357 BY230007	2001-000258 2007-000964	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M R-CHIP;5.1KOHM,5%,1/10W,DA,TP,2012	
R3A01	70795011	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A04 R3A05	70795515 70795533	2007-000468 2007-000774	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012 R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
R3A05 R3A06	70795533 70795522	2007-000774	R-CHIP;1800HM,5%,1/10W,DA,TP,2012 R-CHIP;1800HM,5%,1/10W,DA,TP,2012	
R3A07	BY230094	2007-000757	R-CHIP;330KOHM,5%,1/10W,DA,TP,2012	
R3A08 R3A09	70795686 70795539	2007-000355 2007-000981	R-CHIP;12K0HM,5%,1/10W,DA,TP,2012 R-CHIP;5.6K0HM,5%,1/10W,DA,TP,2012	
R3A09 R3A10	70795539	2007-000981	R-CARBON;1KOHM,5%,1/10W,DA,1P,2012 R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R3A11	70795523	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R3A12 R3A13	70796026 70795704	2007-000502 2007-000931	R-CHIP;2.20HM,5%,1/10W,DA,TP,2012 R-CHIP;4700HM,5%,1/10W,DA,TP,2012	
,		200. 000701	,	

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RADIA	Loc.No.	TSB Parts No.	Reference No.	Description ; Specification	Remark
RSA11	R3A14	70795021	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
REATH   70795522   2007-000449   RCHIPLES ONCHMENTS , 1700MA, PEOLIZ   ROACH   70795522   2007-000449   RCHIPLES ONCHMENTS , 1700MA, PEOLIZ   ROACH   70795521   2007-000249   RCHIPLES ONCHMENTS , 1700MA, PEOLIZ   ROACH   70795510   2007-000241   RCHIPLES ONCHMENTS , 1700MA, PEOLIZ   ROACH   70795510   2007-000241   RCHIPLES ONCHMENTS , 1700MA, PEOLIZ   ROACH   70795510   2007-000241   RCHIPLES ONCHMENTS , 1700MA, PEOLIZ   ROACH   70795520   2007-000241   RCHIPLES ONCHMENTS , 1700MA, PEOLIZ   ROACH   7079520   2007-000241   RCHIPLES ONCHMENTS , 1700MA, PEOLIZ   ROAC	R3A16	70795516	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R3A19 70795522 2007-000419 R-CHIP 3 ROMM 55, 1710W DA TE2012 R3A27 70795516 2007-000303 R-CHIP 3 ROMM 55, 1710W DA TE2012 R3A26 70795640 2007-000321 R-CHIP 3 ROMM 55, 1710W DA TE2012 R3A26 70795640 2007-000321 R-CHIP 3 ROMM 55, 1710W DA TE2012 R3A27 70795044 2007-000321 R-CHIP 3 ROMM 55, 1710W DA TE2012 R3A27 70795044 2007-000321 R-CHIP 3 ROMM 55, 1710W DA TE2012 R3A27 70795040 2007-000321 R-CHIP 3 ROMM 55, 1710W DA TE2012 R3A27 70795040 2007-000321 R-CHIP 3 ROMM 55, 1710W DA TE2012 R3A28 70795040 2007-000360 R-CARBON 5 ROMM 55, 1710W DA TE2012 R3A30 7079503 2007-000464 R-CARBON 54, 170W DA TE2012 R3A31 7079503 2007-000464 R-CARBON 54, 170W DA TE2012 R3A31 7079503 2007-000464 R-CARBON 54, 170W DA TE2012 R3A32 7079503 2007-000464 R-CARBON 54, 170W DA TE2012 R3A33 8930023 2007-000404 R-CHIP 10004M 55, 170W DA TE2012 R3A33 893003 7079553 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A31 8079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A31 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A31 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A31 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A31 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A31 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A31 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A31 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A400 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A400 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A400 7079563 2007-000290 R-CHIP 10004M 55, 170W DA TE2012 R3A400 7079564 2007-000291 R-CARBON 12 R					
R3A22 70795516 2007-0007508 R-CHEP3 KOKPHA, 59%, 1/10WDA, TR2012 R3A24 70795527 2007-000550 R-CHEP3 KOKPHA, 59%, 1/10WDA, TR2012 R3A24 70795627 2007-000550 R-CHEP3 KOKPHA, 59%, 1/10WDA, TR2012 R3A24 7079568 2007-000556 R-CHEP3 KOKPHA, 59%, 1/10WDA, TR2012 R3A24 7079568 2007-000556 R3A27 7079504 2007-000556 R3A27 7079504 2007-00056 R3A27 7079504 2007-000241 R-CARBONIA, 51%, 1/10WDA, TR2012 R3A28 70795050 2007-000241 R-CARBONIA, 51%, 1/10WDA, TR2012 R3A28 70795050 2007-000241 R-CARBONIA, 51%, 1/10WDA, TR2012 R3A28 70795050 R3A2					
READY 21   March 1995   P. 2007 000500   R. CHIP 1800 (MILAS), 1710 (MILA) TEOLIZ   READY 21   RE					
R3A25 70795519 2007-000528 R-CHIP 12KOHM 595, 1710WDA TP2012 R3A26 70795606 2007-000321 R-CHIP 12KOHM 595, 1710WDA TP2012 R3A27 70795607 2007-000341 R-CHIP 12KOHM 595, 1710WDA TP2012 R3A28 70795630 2001-000614 R-CARBON 3-9KOHM 595, 1710WDA TP2012 R3A29 70795630 2001-000676 R-CARBON 3-9KOHM 595, 1710WDA TP2012 R3A29 70795630 2001-000760 R-CARBON 3-9KOHM 595, 1710WDA TP2012 R3A29 70795630 2001-000760 R-CARBON 3-9KOHM 595, 1710WDA TP2012 R3A29 70795641 2001-000760 R-CARBON 3-9KOHM 595, 1710WDA TP2012 R3A29 70795641 2001-000793 R-CARBON 4-70HM 595, 1710WDA TP2012 R3A29 70795642 2001-000794 R-CARBON 4-70HM 595, 1710WDA TP2012 R3A29 70795643 2007-000290 R-CHIP 1000HM 595, 1710WDA TP2012 R3A20 70795640 2001-000291 R-CARBON 1-20HM 595, 1710WDA TP2012 R3A20 70795641 2001-000291 R-CARBON 1-20HM 595, 1710WDA TP2012 R3A20 70795641 2001-000291 R-CARB					
RSADE   70795019   2007 000221   R CHIP1_ZKOHMESS_T_TUMO_DA_TR2012   RSADE   70795044   2001 000080   RSADE   70795044   2001 000080   RSADE   70795044   2001 000080   RSADE   70795044   2001 000081   RSADE   70795044   2001 000081   RSADE   7079504   2001 0000613   RSADE   7079503   2001 000614   RSADE   7079503   2001 000614   RSADE   7079503   2001 000616   RSADE   7079504   2001 000703   RSADE   7079504   2001 000704   RSADE   7079504   2001 000704   RSADE   7079504					
RSA27         70795040         2001-000900         R-CABBON-5 INCHM, 5%, 170W DATE TEQT?           RSA28         70795020         2007-000041         R-CABBON, 3 WCNHM, 5%, 170W DATE TEQT?           RSA29         70795038         2001-0000613         R-CABBON, 3 WCNHM, 5%, 170W DATE TEQT?           RSA29         7079509         2001-0000613         R-CABBON, 3 WCNHM, 5%, 170W DATE TEQT?           RSA22         7079509         2001-000060         R-CABBON, 3 WCNHM, 5%, 170W DATE, TE, 183, 3 MM           RSA33         7079508         2001-000061         R-CABBON, 3 WCNHM, 5%, 170W DATE, TE, 183, 3 MM           RSA31         RY930273         2007-001141         R-CIPL, 5 WCNHM, 5%, 170W DA, TE, 283, 3 MM           RSA31         RY930273         2007-001141         R-CIPL, 5 WCNHM, 5%, 170W DA, TE, 283, 3 MM           RSA31         RY930273         2007-001100743         R-CABBON, 3 CONHM, 5%, 170W DA, TE, 283, 3 MM           RSA31         RY950272         2001-000765         R-CABBON, 4 TO, 185, 170W DA, TE, 283, 2 MM           RSA01         70795632         2007-000970         R-CHER TO, 185, 170W DA, TE, 2012           RSA02         70795683         2007-000960         R-CHER TO, 185, 170W DA, TE, 2012           RSA03         70795683         2007-000078         R-CHER TO, 185, 170W DA, TE, 2012           RSA04 <td></td> <td></td> <td></td> <td></td> <td></td>					
RBADB         70795502         2007 0000241         R - CHIP1 E-KOHMI, 5%, 170W (DAT P2012)           RBADD         7079503         2001 -000164         R - CARBON, 3 KOHM, 5%, 170W AA, TPL 883, 2M           RBADD         70795038         2001 -000164         R - CARBON, 3 KOHM, 5%, 170W AA, TPL 883, 2M           RBADD         70795038         2001 -000766         R - CARBON, 3 KOHM, 5%, 170W AA, TPL 883, 2MM           RBADD         70795038         2001 -000766         R - CARBON, 4 KOHM, 5%, 170W AA, TPL 883, 2MM           RBADD         70796179         2001 -000766         R - CARBON, 4 KOHM, 5%, 170W AA, TPL 883, 2MM           RBADD         70796179         2001 -000769         R - CARBON, 4 KOHM, 5%, 170W AA, TPL 883, 2MM           RBDD         70796179         2001 -000769         R - CARBON, 4 KOHM, 5%, 170W DA, TPL 2012           RBDD         7079583         2007 -000290         R - CHIPL 1000HM, 5%, 170W DA, TPL 2012           RBD         7079583         2007 -000290         R - CHIPL 1000HM, 5%, 170W DA, TPL 2012           RBO         7079583         2007 -000290         R - CHIPL 1000HM, 5%, 170W DA, TPL 2012           RBO         7079583         2007 -000290         R - CHIPL 1000HM, 5%, 170W DA, TPL 2012           RBO         7079583         2007 -000290         R - CHIPL 1000HM, 5%, 170W DA, TPL 2012		70795686	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
RSA92					
RSA30         70795038         2001-000045         R-CARBON 2 MOHM, 59x, 178W, AA, TE, 18X3, 2M           RSA31         70795038         2001-000065         R-CARBON 3 MOHM, 59x, 178W, AA, TE, 18X3, 2MM           RSA32         70795009         2001-000065         R-CARBON 3 MOHM, 59x, 178W, AA, TE, 18X3, 2MM           RSA32         70795020         2001-000065         R-CARBON 3 MOHM, 59x, 178W, AA, TE, 18X3, 2MM           RS3001         7079512         2001-000043         R-CARBON 3 MOHM, 59x, 178W, AA, TE, 18X3, 2MM           RS3002         7079502         2001-000044         R-CARBON 4 MOHM, 59x, 178W, AA, TE, 18X3, 2MM           RS303         7079502         2001-000044         R-CARBON 4 MOHM, 59x, 178W, AA, TE, 18X3, 2MM           R401         7079503         2007-000094         R-CHIPATKOHM, 59x, 178W, AA, TE, 18X3, 2MM           R402         7079508         2007-000090         R-CHIPATKOHM, 59x, 178W, AA, TE, 18X3, 2MM           R403         7079508         2007-000020         R-CHIPATKOHM, 59x, 178W, AA, TE, 18X3, 2MM           R404         7079508         2007-0000240         R-CHIPATKOHM, 59x, 178W, AA, TE, 18X3, 2MM           R407         7079509         2001-0000291         R-CARBON 1000HM, 59x, 178W, AA, TE, 18X3, 2MM           R408         7079500         2001-0000291         R-CARBON 1000HM, 59x, 178W, AA, TE, 18X3, 2MM <td></td> <td></td> <td></td> <td></td> <td></td>					
R3A33					
R3A32         70795608         2001-000065         R-CARBON 3-KOHM, SW, 178WAA, TPI, BX3, 2MM           R3A33         BY230223         2007-001141         R CARBON 4-SIGNIM, SW, 179WAA, TPI, BX3, 2MM           R3A34         BY230223         2007-001141         R CHRP 1-SKOHM, SW, 170WAA, TPI, BX3, 2MM           R3D01         7079-022         2001-000748         R CARBON, 470HM, SW, 170WAA, TPI, BX3, 2MM           R3D10         7079-022         2001-000745         R CARBON, 470HM, SW, 170WAA, TPI, BX3, 2MM           R401         7079-028         2001-000749         R CARBON, 470HM, SW, 170WAA, TPI, BX3, 2MM           R402         7079-0883         2007-000290         R CHRP 100OHM, SW, 170WAA, TPI, BX3, 2MM           R403         7079-0863         2007-000290         R CHRP 100OHM, SW, 170WAA, TPI, BX3, 2MM           R406         7079-0863         2007-000290         R CHRP 100OHM, SW, 170WAA, TPI, BX3, 2MM           R406         7079-0863         2007-000290         R CHRP 100OHM, SW, 170WAA, TPI, BX3, 2MM           R408         RY330019         2001-000221         R CARBON, 100OHM, SW, 170WAA, TPI, BX3, 2MM           R4000         7079-0046         2001-000281         R CARBON, 100OHM, SW, 170WAA, TPI, BX3, 2MM           R4010         7079-0046         2001-000281         R CHRP 100OHM, SW, 170WAA, TPI, BX3, 2MM					
R3A33 70795038 2001-000766 R-CARBON-43XCHM-59, 1/79WAA,TP1.8X3.2MM R3A37 R3A30203 2007-000797 R-CARBON-43XCHM-59, 1/79WAA,TP1.8X3.2MM R3D00 7079627 2001-000793 R-CARBON-47CHM-59, 1/79WAA,TP1.8X3.2MM R3D00 7079627 2001-000793 R-CARBON-47CHM-59, 1/79WAA,TP1.8X3.2MM R3D00 7079627 2001-000794 R-CARBON-47CHM-59, 1/79WAA,TP1.8X3.2MM R3D01 7079628 2007-000290 R-CHP1.00014M-59, 1/79WAA,TP1.8X3.2MM R402 7079683 2007-000290 R-CHP1.00014M-59, 1/79WAA,TP1.8X3.2MM R404 7079683 2007-000290 R-CHP1.00014M-59, 1/79WAA,TP1.8X3.2MM R406 7079604 2001-000290 R-CARBON-10XCHM-59, 1/79WAA,TP1.8X3.2MM R407 7079602 2001-000291 R-CARBON-1XCHM-59, 1/79WAA,TP1.8X3.2MM R408 87330017 2001-000221 R-CARBON-1XCHM-59, 1/79WAA,TP1.8X3.2MM R408 7079604 2001-000281 R-CARBON-1XCHM-59, 1/79WAA,TP1.8X3.2MM R4080 7079604 2001-000281 R-CARBON-1XCHM-59, 1/79WAA,TP1.8X3.2MM R501 B7330220 2007-0000281 R-CARBON-1XCHM-59, 1/79WAA,TP1.8X3.3MM R501 B7330220 2007-0000281 R-CARBON-1XCHM-59, 1/79WAA,TP1.8X3.3MM R501 B7330220 2007-0000281 R-CARBON-1XCHM-59, 1/79WAA,TP1.8X3.3MM R501 B7330220 2007-0000281 R-CARBON-1XCHM-59, 1/70WAA,TP1.8X3.3MM R501 B733020 2007-000029 R-CHP1.8XCHM-59, 1/70WAA,TP1.8X3.2MM R501 B733021 2007-000029 R-CHP1.8XCHM-59, 1/70WAA,TP1.8X3.2MM R501 B730220 2007-000029 R-C					
RBA31         BY230223         2007-001141         R-CHIPT_5KOHM_558_178WA_TEL_BX3_2MM           R3D01         7079527         2007-000566         R-CABBON_470HM_558_178WA_TEL_BX3_2MM           R3D03         7079527         2007-000566         R CHIPCZKOHM,558_170WA_ATEL_BX3_2MM           R3D03         7079504         2007-000290         R CHIPCZKOHM,558_170WA_ATEL_BX3_2MM           R402         70795683         2007-000290         R CHIPLIOOHM,558_170WA_ATEL_BX3_2MM           R404         70795683         2007-000290         R CHIPLIOOHM,558_170WA_ATEL_BX3_2MM           R406         70795004         2001-000249         R CABBON_120KHM,558_170WA_ATEL_BX3_2MM           R406         70795004         2001-000249         R CABBON_120KHM,558_170WA_ATEL_BX3_2MM           R407         70795004         2001-000281         R CABBON_120KHM,558_170WA_ATEL_BX3_2MM           R408         70795004         2001-000281         R CABBON_100KHM,558_170WA_ATEL_BX3_2MM           R409         70795004         2001-000281         R CABBON_100KHM,558_170WA_ATEL_BX3_2MM           R4005         70795004         2001-000281         R CABBON_100KHM,558_170WA_ATEL_BX3_2MM           R4006         70795004         2001-000281         R CABBON_100KHM,558_170WA_ATEL_BX3_2MM           R5010         70795004         2001-000281<					
R3D02         70795042         2007-000586         R. C-ARBON A, 70/ML/59, 1/20W, AA, 179.183.2 MM           R4D1         7079505         2007-000941         R. C-ARBON A, 70/ML/59, 1/20W, AA, 179.183.2 MM           R4D2         7079683         2007-000290         R. C-HIR-10000HM/59, 1/10W, DA, 172.012           R4D3         7079683         2007-000290         R. C-HIR-10000HM/59, 1/10W, DA, 172.012           R4D3         70795020         2001-000290         R. C-HIR-10000HM/59, 1/10W, DA, 172.012           R4D6         70795020         2001-000290         R. C-HIR-1000HM/59, 1/10W, DA, 172.012           R4D7         70795020         2001-000291         R. C-ARBON 12 KM A, 178.183.2 MM           R4D8         87930019         2001-000294         R. C-ARBON 12 KM A, 178.183.2 MM           R4M08         70795004         2001-000281         R. C-ARBON 12 KM A, 178.183.2 MM           R4M00         70795004         2001-000281         R. C-ARBON 1000HM/59, 178W, AA, 179.183.2 MM           R4M00         70795004         2001-000281         R. C-ARBON 1000HM/59, 178W, AA, 179.183.2 MM           R4M00         7079504         2001-000281         R. C-ARBON 1000HM/59, 178W, AA, 179.183.2 MM           R4M00         70795064         2001-000281         R. C-HIR-1000HM/59, 170W, A, 179.183.2 MM           R501 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
R3D03   70799042   2001-000745   R-CARBON-1-7-OHM-5%-1/19W-AA FT2-813-82-MM   R402   70795683   2007-000909   R-CHIP-10000HM-5%-1/10W-DA TT2-2012   R404   70795683   2007-000290   R-CHIP-10000HM-5%-1/10W-DA TT2-2012   R406   70795683   2007-000290   R-CHIP-10000HM-5%-1/10W-DA TT2-2012   R406   70795081   2007-000290   R-CHIP-10000HM-5%-1/10W-DA TT2-2012   R408   R7930019   2007-000291   R-CARBON-100-OHM-5%-1/10W-DA TT2-2012   R408   R7930019   2001-000291   R-CARBON-100-OHM-5%-1/10W-DA TT2-2012   R408   R7930019   2001-000291   R-CARBON-100-OHM-5%-1/10W-DA TT2-2012   R409   70795004   2001-000281   R-CARBON-100OHM-5%-1/16W-DA TT2-2012   R4000   70795004   2001-000281   R-CARBON-100OHM-5%-1/16W-DA TT2-2012   R501   87930220   2007-0000031   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R502   70795094   2007-000031   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R503   7079504   2007-000031   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R504   70795094   2007-000051   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R505   87930220   2007-0000031   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R506   70795041   2007-000053   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R507   87930220   2007-0000031   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R506   70795041   2007-000053   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R507   70795042   2007-000053   R-CHIP-3/CHIM-5%-1/10W-DA TT2-2012   R507   70795042   2007-000053   R-CHIP-3/CHIM-5%-1/10W-D	R3D01	70796129	2001-000793	R-CARBON;470HM,5%,1/8W,AA,TP,1.8X3.2MM	
R401				R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R402   7079-5683   2007-000290   R. CHIP-10000HM,58; 1/10W,DA,TP.2012   R404   7079-5683   2007-000290   R. CHIP-10000HM,58; 1/10W,DA,TP.2012   R406   7079-5081   2007-000290   R. CHIP-10000HM,58; 1/10W,DA,TP.2012   R406   7079-5081   2007-0002449   R. CARBON,12 (XCHIM-58); 1/3W,AA,TP.1.8X3,2MM   R407   7079-5081   2007-0002449   R. CARBON,12 (XCHIM-58); 1/3W,AA,TP.1.8X3,2MM   R4080   7079-5081   2007-000281   R. CARBON,12 (XCHIM-58); 1/3W,AA,TP.1.8X3,2MM   R4080   7079-5094   2001-000281   R. CARBON,12 (XCHIM-58); 1/3W,AA,TP.1.8X3,2MM   R4080   7079-5094   2001-000281   R. CARBON,1000HM,59; 1/3W,AA,TP.1.8X3,2MM   R4080   7079-5094   2007-0000281   R. CARBON,1000HM,59; 1/3W,AA,TP.1.8X3,2MM   R4080   7079-5094   2007-000038   R. CHIP-2/KOHM,59; 1/10W,DA,TP.2012   R507   8079-5094   2007-000038   R. CHIP-3/KOHM,59; 1/10W,DA,TP.2012   R507   87230220   2007-0000038   R. CHIP-3/KOHM,59; 1/10W,DA,TP.2012   R5080   7079-5514   2007-001055   R. CHIP-3/KOHM,59; 1/10W,DA,TP.2012   R5080   7079-5514   2007-001055   R. CHIP-3/KOHM,59; 1/10W,DA,TP.2012   R5080   7079-5514   2007-001055   R. CHIP-3/KOHM,59; 1/10W,DA,TP.2012   R5114   7079-5686   2007-000355   R. CHIP-3/KOHM,59; 1/10W,DA,TP.2012   R					
R403         70795683         2007-000290         R-CHIP1000HM_5%, I/TOW_DA_TP.2012           R406         70795060         2001-000290         R-CHIP1000HM_5%, I/BW_AA_TP.18X3.2MM           R407         70795020         2001-000291         R-CARBON.12KOHM_5%, I/BW_AA_TP.18X3.2MM           R408         BY230019         2001-000221         R-CARBON.22KOHM_5%, I/BW_AA_TP.18X3.2MM           R4N01         70795004         2001-000281         R-CARBON.12KOHM_5%, I/BW_AA_TP.18X3.2MM           R4N02         70795004         2001-000281         R-CARBON.12KOHM_5%, I/BW_AA_TP.18X3.2MM           R4N03         70795004         2001-000281         R-CARBON.1000HM_5%, I/BW_AA_TP.18X3.2MM           R4N06         70795004         2001-000281         R-CARBON.1000HM_5%, I/BW_AA_TP.18X3.2MM           R501         BY230220         2001-000281         R-CARBON.1000HM_5%, I/BW_AA_TP.18X3.2MM           R501         BY230220         2007-000003         R-CARBON.1000HM_5%, I/BW_AA_TP.18X3.2MM           R502         70795714         2007-000031         R-CHIP470HM_5%, I/IOW_DA_TP.2012           R504         70795729         2007-000031         R-CHIP4740HM,5%, I/IOW_DA_TP.2012           R505         7079578         2007-000033         R-CHIP4740HM,5%, I/IOW_DA_TP.2012           R506         7079578         2007-000034<					
R404         70795083         2007-000290         R-CARBON-INGNM-MS-88, 170W,DA TP-2012           R406         70795020         2001-000290         R-CARBON-INGNM-MS-88, 178W-AA, TP-1.8X3.ZM           R408         R930019         2001-000281         R-CARBON-INGNM-MS-88, 178W-AA, TP-1.8X3.ZM           R408         R930019         2001-000281         R-CARBON-INCOMM-MS-8, 178W-AA, TP-1.8X3.ZMM           R4N02         7079504         2001-000281         R-CARBON-INCOMM-MS-8, 178W-AA, TP-1.8X3.ZMM           R4N03         70795064         2001-000281         R-CARBON-INCOMM-MS-8, 178W-AA, TP-1.8X3.ZMM           R4N04         70795064         2001-000281         R-CARBON-INCOMM-MS-8, 178W-AA, TP-1.8X3.ZMM           R4N06         7079504         2001-000281         R-CARBON-INCOMM-MS-8, 178W-AA, TP-1.8X3.ZMM           R501         R920220         2001-000281         R-CARBON-INCOMM-MS-8, 178W-AA, TP-1.8X3.ZMM           R501         R920220         2007-000031         R-CHIP-STOWD MS-7.10W MD-1.72012           R502         70795718         2007-000031         R-CHIP-STOWD MS-7.10W MD-1.72012           R504         70795718         2007-000031         R-CHIP-STOWD MS-7.10W MD-1.72012           R505         R9302020         2007-000031         R-CHIP-STOWD MS-7.10W MD-1.72012           R506         70795718					
R406         7079500c         2001-000290         R. CARBON-10XONM, 18W, 178W, ATE, 18W.3 ZM           R408         BY230019         2001-000221         RCARBON-12XOHM, 59%, 178W, AATE, 18W.3 ZM           R4N01         70795014         2001-000281         R. CARBON-12XOHM, 59%, 178W, AATE, 18W.3 ZM           R4N02         7079504         2001-000281         R. CARBON-10XOHM, 59%, 178W, AA, TP.1 BX.3 ZMM           R4N03         7079504         2001-000281         R. CARBON-10XOHM, 59%, 178W, AA, TP.1 BX.3 ZMM           R4N04         70795064         2001-000281         R. CARBON-10XOHM, 59%, 178W, AA, TP.1 BX.3 ZMM           R4N05         7079504         2001-000281         R. CARBON-10XOHM, 59%, 178W, AA, TP.1 BX.3 ZMM           R4N06         7079504         2001-000281         R. CARBON-10XOHM, 59%, 178W, AA, TP.1 BX.3 ZMM           R4N06         70795718         2007-000031         R. CARBON-10XOHM, 59%, 178W, AA, TP.1 BX.3 ZMM           R501         R5020220         2007-000031         R. CHIPP-9 IKOHM, 59%, 170W, DA, TP.2012           R504         70795798         2007-000031         R. CHIPP-9 IKOHM, 59%, 170W, DA, TP.2012           R505         70795791         2007-000031         R. CHIPP-2 IXOHM, 59%, 170W, DA, TP.2012           R506         70795718         2007-000031         R. CHIPP-2 IXOHM, 59%, 170W, DA, TP.2012     <					
R407   70795020   2001-000241					
MAIN					
RAND1         70795151         2007-000481         R. CHIP: IKOHIN, 5%, 1710W.DA, TP.2012           RAND2         70795004         2001-000281         R. CARBON: 1000HM, 5%, 178W.AA, TP.1.883.2MM           RAND3         70795004         2001-000281         R. CARBON: 1000HM, 5%, 178W.AA, TP.1.883.2MM           RAND5         70795004         2001-000281         R. CARBON: 1000HM, 5%, 178W.AA, TP.1.883.2MM           RS01         BY 230220         2007-000281         R. CARBON: 1000HM, 5%, 178W.AA, TP.1.883.2MM           RS01         BY 230220         2007-000224         R. CHIP: 43KOHM, 5%, 170W.DA, TP.2012           RS01         BY 230220         2007-000931         R. CHIP: 470OHM, 5%, 178W.AA, TP.1.883.2MM           RS01         70795784         2007-000931         R. CHIP: 470OHM, 5%, 170W.DA, TP.2012           RS04         70795529         2007-000931         R. CHIP: 470OHM, 5%, 170W.DA, TP.2012           RS05         70795718         2007-001054         R. CHIP: 43KOHM, 5%, 170W.DA, TP.2012           RS06         70795718         2007-001055         R. CHIP: 43KOHM, 5%, 170W.DA, TP.2012           RS07         BY 230220         2007-000003         R. CHIP: 43KOHM, 5%, 170W.DA, TP.2012           RS01         BY 230220         2007-000003         R. CHIP: 43KOHM, 5%, 170W.DA, TP.2012           RS11					
RMN03         70795004         2001-000261         R-CARBON-1000HM/5%, 1/8W/AA, TR1.8X3.2MM           R4N04         70795004         2007-000663         R-CHIP-ZYROHM, 5%, 1/10W, DA. TR2012           R4N05         70795004         2001-000281         R-CARBON-1000HM, 5%, 1/8W, AA, TR1.8X3.2MM           R501         BY230220         2007-000224         R-CHIP-43KOHM, 5%, 1/10W, DA. TR2012           R502         70795704         2007-001224         R-CHIP-91 KOHM, 5%, 1/10W, DA. TR2012           R503         70795704         2007-000931         R-CHIP-4700HM, 5%, 1/10W, DA. TR2012           R504         70795704         2007-000931         R-CHIP-4700HM, 5%, 1/10W, DA. TR2012           R504         70795704         2007-000038         R-CHIP-4700HM, 5%, 1/10W, DA. TR2012           R505         70795718         2007-000030         R-CHIP-43KOHM, 5%, 1/10W, DA. TR2012           R506         7079514         2007-001055         R-CHIP-62KOHM, 5%, 1/10W, DA. TR2012           R507         8Y230220         2007-000035         R-CHIP-62KOHM, 5%, 1/10W, DA. TR2012           R501         BY230220         2007-000035         R-CHIP-62KOHM, 5%, 1/10W, DA. TR2012           R511         7079564         2007-00035         R-CHIP-43KOHM, 5%, 1/10W, DA. TR2012           R512         70795505         2007-000034 <td>R4N01</td> <td>70795515</td> <td>2007-000468</td> <td></td> <td></td>	R4N01	70795515	2007-000468		
RAHN04   70795696   2007-000653   RCHIP-27KOHM.59s.17/0W.DA.TP.2012   RAHN05   70795004   2001-000281   RCARBON-1000HM.5%-1.78/W.AA.TP.1.8X3.2MM   RAHN05   7079504   2001-000281   RCARBON-1000HM.5%-1.78/W.AA.TP.1.8X3.2MM   R2012   2007-000003   RCHIP-9.1KOHM.5%-1.78/W.AA.TP.1.8X3.2MM   R2012   2007-000031   RCHIP-9.1KOHM.5%-1.78/W.AA.TP.1.8X3.2MM   R2012   2007-000031   RCHIP-9.1KOHM.5%-1.79/W.DA.TP.2012   R204   70795529   2007-000018   RCHIP-9.1KOHM.5%-1.79/W.DA.TP.2012   R206   70795718   2007-000018   RCHIP-2.7KOHM.5%-1.710/W.DA.TP.2012   R206   70795718   2007-000003   RCHIP-2.7KOHM.5%-1.710/W.DA.TP.2012   R206   70795718   2007-000003   RCHIP-9.1KOHM.5%-1.710/W.DA.TP.2012   R206   70795541   2007-001055   RCHIP-9.2KOHM.5%-1.710/W.DA.TP.2012   R206   70795541   2007-001055   RCHIP-2.7KOHM.5%-1.710/W.DA.TP.2012   R207   R	R4N02			R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
R4ND5         70795004         2001-000281         R.CARBON-1000HM.5%, 1/8W.AA.TP.1.8X3.2MM           R501         BY230220         2007-00003         R.CHIP-43KOHM.5%, 1/8W.AA.TP.1.8X3.2MM           R501         BY230220         2007-00003         R.CHIP-43KOHM.5%, 1/8W.AA.TP.1.8X3.2MM           R502         70795704         2007-000931         R.CHIP-91KOHM.5%, 1/10W.DA.TP.2012           R503         70795704         2007-000018         R.CHIP-27KOHM.5%, 1/10W.DA.TP.2012           R504         70795704         2007-00003         R.CHIP-27KOHM.5%, 1/10W.DA.TP.2012           R505         BY230220         2007-00003         R.CHIP-31KOHM.5%, 1/10W.DA.TP.2012           R506         P6795718         2007-001055         R.CHIP-31KOHM.5%, 1/10W.DA.TP.2012           R507         BY230220         2007-00003         R.CHIP-42KOHM.5%, 1/10W.DA.TP.2012           R508         70795541         2007-001055         R.CHIP-32KOHM.5%, 1/10W.DA.TP.2012           R510         BY230220         2007-00003         R.CHIP-32KOHM.5%, 1/10W.DA.TP.2012           R511         7079566         2007-000034         R.CHIP-33KOHM.5%, 1/10W.DA.TP.2012           R512         70795531         2007-000044         R.CHIP-43KOHM.5%, 1/10W.DA.TP.2012           R518         P3230220         2007-000058         R.CHIP-43KOHM.					
RANNO					
R501         BY230220         2007-00003         R-CHIP-3 KOHM-5%, 1/10W DA, TP2012           R502         70795704         2007-000931         R-CHIP-3 KOHM-5%, 1/10W DA, TP2012           R503         70795704         2007-000031         R-CHIP-3 KOHM-5%, 1/10W DA, TP2012           R504         70795718         2007-000031         R-CHIP-2 KOHM-5%, 1/10W DA, TP2012           R506         RY390220         2007-000032         R-CHIP-3 KOHM-5%, 1/10W DA, TP2012           R507         RY390220         2007-000003         R-CHIP-9 KOHM-5%, 1/10W DA, TP2012           R508         70795541         2007-001055         R-CHIP-6 ZKOHM-5%, 1/10W DA, TP2012           R510         BY230220         2007-0000035         R-CHIP-6 ZKOHM-5%, 1/10W DA, TP2012           R511         70795641         2007-0000355         R-CHIP-18 CANDA, 1/10W DA, TP2012           R512         70795533         2007-0000355         R-CHIP-18 CANDA, 1/10W DA, TP2012           R514         7079505         2007-000941         R-CHIP-3 KOHM, 5%, 1/10W DA, TP2012           R516         70795705         2007-0000941         R-CHIP-3 KOHM, 5%, 1/10W, DA, TP2012           R517         70795641         2007-000055         R-CHIP-3 KOHM, 5%, 1/10W, DA, TP2012           R518         BY230220         2007-000055         R-CHIP-3 KOHM,					
R502         70795718         2007-001224         R-CHIP-9.TKOHM.5%, 1/10W.DA.TP.2012           R503         7079504         2007-00031         R-CHIP-370HM.5%, 1/10W.DA.TP.2012           R506         87230220         2007-00003         R-CHIP-2.TKOHM.5%, 1/10W.DA.TP.2012           R506         70795718         2007-000003         R-CHIP-9.TKOHM.5%, 1/10W.DA.TP.2012           R507         87230220         2007-000003         R-CHIP-9.TKOHM.5%, 1/10W.DA.TP.2012           R508         70795541         2007-01055         R-CHIP-3.KOHM.5%, 1/10W.DA.TP.2012           R509         70795541         2007-010055         R-CHIP-3.KOHM.5%, 1/10W.DA.TP.2012           R510         BY230220         2007-00003         R-CHIP-3.KOHM.5%, 1/10W.DA.TP.2012           R511         70795533         2007-000035         R-CHIP-3.KOHM.5%, 1/10W.DA.TP.2012           R512         70795533         2007-000041         R-CHIP-3.KOHM.5%, 1/10W.DA.TP.2012           R514         70795705         2007-000041         R-CHIP-3.KOHM.5%, 1/10W.DA.TP.2012           R516         70795705         2007-000003         R-CHIP-3.KOHM.5%, 1/10W.DA.TP.2012           R519         70795614         2007-001055         R-CHIP-3.KOHM.5%, 1/10W.DA.TP.2012           R521         70795615         2007-000003         R-CHIP-3.KOHM.5%, 1/10W.					
R503         70795704         2007-00931         R-CHIP-2700HM-5%, 1/10W DA, TP2012           R504         70795529         2007-00003         R-CHIP-27KOHM-5%, 1/10W DA, TP2012           R506         R9230220         2007-00003         R-CHIP-27KOHM-5%, 1/10W DA, TP2012           R507         R9230220         2007-00003         R-CHIP-91KOHM-5%, 1/10W DA, TP2012           R508         70795541         2007-001055         R-CHIP-62KOHM-5%, 1/10W DA, TP2012           R509         70795541         2007-000035         R-CHIP-62KOHM-5%, 1/10W DA, TP2012           R510         BY230220         2007-000035         R-CHIP-62KOHM-5%, 1/10W DA, TP2012           R511         70795686         2007-000355         R-CHIP-12KOHM-5%, 1/10W DA, TP2012           R512         70795533         2007-000035         R-CHIP-12KOHM-5%, 1/10W DA, TP2012           R514         70795533         2007-000041         R-CHIP-3XKOHM-5%, 1/10W DA, TP2012           R516         70795705         2007-0000941         R-CHIP-47KOHM-5%, 1/10W DA, TP2012           R517         7079564         2007-000055         R-CHIP-62KOHM-5%, 1/10W DA, TP2012           R520         BY230220         2007-000055         R-CHIP-62KOHM-5%, 1/10W DA, TP2012           R523         70795524         2007-000065         R-CHIP-62KOHM-5%, 1/10W DA					
R504         70795529         2007-000518         RCHIP2-Z/KOHM, 58, 1/10W, DA, TP2012           R505         8V230220         2007-000003         RCHIP3-9 JKOHM, 58, 1/10W, DA, TP2012           R506         7079518         2007-001024         RCHIP3-9 JKOHM, 58, 1/10W, DA, TP2012           R507         8V230220         2007-001055         RCHIP4-2 KOHM, 58, 1/10W, DA, TP2012           R509         70795541         2007-001055         RCHIP4-2 KOHM, 58, 1/10W, DA, TP2012           R510         8V230220         2007-000003         RCHIP4-2 KOHM, 58, 1/10W, DA, TP2012           R511         70795686         2007-000035         RCHIP4-2 KOHM, 58, 1/10W, DA, TP2012           R512         7079553         2007-000941         RCHIP4-3 KOHM, 58, 1/10W, DA, TP2012           R514         70795705         2007-000941         RCHIP4-3 KOHM, 58, 1/10W, DA, TP2012           R517         70795541         2007-000003         RCHIP4-6 XOHM, 58, 1/10W, DA, TP2012           R518         8Y230220         2007-000003         RCHIP4-6 XOHM, 58, 1/10W, DA, TP2012           R519         70795541         2007-000003         RCHIP4-3 KOHM, 58, 1/10W, DA, TP2012           R520         8Y230220         2007-000003         RCHIP4-3 KOHM, 58, 1/10W, DA, TP2012           R521         70795641 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
R506         70795718         2007-001224         R. CHIP-9.1KOHM.58, 1/10W.DA.TP.2012           R507         BY230220         2007-001055         R. CHIP-6.2KOHM.58, 1/10W.DA.TP.2012           R509         70795541         2007-001055         R. CHIP-6.2KOHM.59, 1/10W.DA.TP.2012           R510         BY230220         2007-00003         R. CHIP-18/3KOHM.59, 1/10W.DA.TP.2012           R511         70795686         2007-000355         R. CHIP-12KOHM.59, 1/10W.DA.TP.2012           R512         70795533         2007-00074         R. CHIP-12KOHM.59, 1/10W.DA.TP.2012           R514         70795705         2007-000941         R. CHIP-47KOHM.59, 1/10W.DA.TP.2012           R516         70795541         2007-00003         R. CHIP-47KOHM.59, 1/10W.DA.TP.2012           R518         BY230220         2007-00003         R. CHIP-6.2KOHM.59, 1/10W.DA.TP.2012           R519         70795541         2007-00003         R. CHIP-6.2KOHM.59, 1/10W.DA.TP.2012           R520         BY230220         2007-00003         R. CHIP-6.2KOHM.59, 1/10W.DA.TP.2012           R521         70795631         2007-00003         R. CHIP-12KOHM.59, 1/10W.DA.TP.2012           R522         70795022         2001-000080         R. CARBON.220KOHM.59, 1/10W.DA.TP.2012           R525         707956363         2007-000290         R. C					
R507         BY230220         2007-000003         R-CHIP-43K0HM.58,1/10W.DA.TP.2012           R508         70795541         2007-001055         R-CHIP-6.2K0HM.59,1/10W.DA.TP.2012           R510         BY230220         2007-000035         R-CHIP-6.2K0HM.59,1/10W.DA.TP.2012           R511         70795686         2007-000355         R-CHIP-13K0HM.59,1/10W.DA.TP.2012           R512         70795533         2007-00074         R-CHIP-33K0HM.59,1/10W.DA.TP.2012           R514         70795705         2007-000941         R-CHIP-147K0HM.59,1/10W.DA.TP.2012           R516         70795705         2007-000941         R-CHIP-47K0HM.59,1/10W.DA.TP.2012           R518         BY230220         2007-00003         R-CHIP-43K0HM.59,1/10W.DA.TP.2012           R519         70795541         2007-001055         R-CHIP-43K0HM.59,1/10W.DA.TP.2012           R520         BY230220         2007-00003         R-CHIP-43K0HM.59,1/10W.DA.TP.2012           R523         70795529         2007-00003         R-CHIP-43K0HM.59,1/10W.DA.TP.2012           R523         70795632         2007-0000671         R-CHIP-27K0HM.59,1/10W.DA.TP.2012           R525         70795632         2007-000671         R-CHIP-27K0HM.59,1/10W.DA.TP.2012           R571         70795683         2007-000290         R-CHIP-1000HM.59,1/10W.DA.TP.2012 </td <td>R505</td> <td>BY230220</td> <td>2007-000003</td> <td></td> <td></td>	R505	BY230220	2007-000003		
R508         70795541         2007-001055         R-CHIP-6_2KOHM,5%,1/10W,DA,TP.2012           R510         BY230220         2007-000035         R-CHIP-6_2KOHM,5%,1/10W,DA,TP.2012           R511         70795686         2007-000355         R-CHIP-12KOHM,5%,1/10W,DA,TP.2012           R512         7079553         2007-000774         R-CHIP-12KOHM,5%,1/10W,DA,TP.2012           R514         70795705         2007-000941         R-CHIP-37KOHM,5%,1/10W,DA,TP.2012           R516         7079571         2007-000941         R-CHIP-47KOHM,5%,1/10W,DA,TP.2012           R517         70795541         2007-001055         R-CHIP-6_2KOHM,5%,1/10W,DA,TP.2012           R518         BY230220         2007-000003         R-CHIP-6_2KOHM,5%,1/10W,DA,TP.2012           R519         70795541         2007-001055         R-CHIP-6_2KOHM,5%,1/10W,DA,TP.2012           R520         BY230220         2007-00003         R-CHIP-6_2KOHM,5%,1/10W,DA,TP.2012           R523         70795621         2007-00003         R-CHIP-6_2KOHM,5%,1/10W,DA,TP.2012           R524         70795583         2007-0000518         R-CHIP-2.7KOHM,5%,1/10W,DA,TP.2012           R524         70795683         2007-0000671         R-CHIP-2.7KOHM,5%,1/10W,DA,TP.2012           R601         BY230113         2007-000290         R-CHIP-1000HM,5%,1/10W,DA,TP					
R509         70795541         2007-001055         R-CHIP-6.2KOHM.5%, I/10W.DA.TP.2012           R510         BY230220         2007-000003         R-CHIP-43KOHM.5%, I/10W.DA.TP.2012           R511         70795686         2007-00074         R-CHIP-12KOHM.5%, I/10W.DA.TP.2012           R512         70795705         2007-000941         R-CHIP-34KOHM.5%, I/10W.DA.TP.2012           R516         70795705         2007-000941         R-CHIP-47KOHM.5%, I/10W.DA.TP.2012           R517         70795541         2007-00003         R-CHIP-47KOHM.5%, I/10W.DA.TP.2012           R518         BY230220         2007-000003         R-CHIP-43KOHM.5%, I/10W.DA.TP.2012           R519         70795541         2007-000003         R-CHIP-62KOHM.5%, I/10W.DA.TP.2012           R520         BY230220         2007-000003         R-CHIP-62KOHM.5%, I/40W.A.P.12012           R523         70795529         2007-000518         R-CHIP-62KOHM.5%, I/40W.A.P.12012           R524         70795529         2007-000618         R-CHIP-1000HM.5%, I/10W.DA.TP.2012           R571         70795683         2007-000290         R-CHIP-1000HM.5%, I/10W.DA.TP.2012           R601         70795683         2007-000290         R-CHIP-1000HM.5%, I/10W.DA.TP.2012           R602         70795684         2007-000292         R-CHIP-1000HM.5%, I/10W.D					
R510         BY230220         2007-000033         R-CHIP-13XCHM, 5%, 1/10W, DA, TP.2012           R511         70795683         2007-000774         R-CHIP-12XCHM, 5%, 1/10W, DA, TP.2012           R514         70795705         2007-000941         R-CHIP-12XCHM, 5%, 1/10W, DA, TP.2012           R516         70795705         2007-000941         R-CHIP-14XCHM, 5%, 1/10W, DA, TP.2012           R517         70795641         2007-001055         R-CHIP-14XCHM, 5%, 1/10W, DA, TP.2012           R518         BY230220         2007-000003         R-CHIP-14XGHM, 5%, 1/10W, DA, TP.2012           R519         70795641         2007-001055         R-CHIP-6, 2KOHM, 5%, 1/10W, DA, TP.2012           R520         BY230220         2007-000038         R-CHIP-6, 2KOHM, 5%, 1/10W, DA, TP.2012           R521         70795622         2001-000508         R-CARBON, 220KOHM, 5%, 1/10W, DA, TP.2012           R524         70795683         2007-000618         R-CHIP-12XGHM, 5%, 1/10W, DA, TP.2012           R570         70795683         2007-000290         R-CHIP-11XGHM, 5%, 1/10W, DA, TP.2012           R601         BY230113         2007-000290         R-CHIP-10XGHM, 5%, 1/10W, DA, TP.2012           R602         70795683         2007-000282         R-CHIP-10XGHM, 5%, 1/10W, DA, TP.2012           R606         70795605         2007					
R511         70795686         2007-000355         R-CHIP-12KOHM, 5%, 1/10W,DA,TP.2012           R512         70795735         2007-000741         R-CHIP-3KOHM, 5%, 1/10W,DA,TP.2012           R514         70795705         2007-000941         R-CHIP-47KOHM, 5%, 1/10W,DA,TP.2012           R516         70795705         2007-000041         R-CHIP-62-KOHM, 5%, 1/10W,DA, TP.2012           R517         70795541         2007-000003         R-CHIP-62-KOHM, 5%, 1/10W,DA, TP.2012           R518         BY330220         2007-000003         R-CHIP-62-KOHM, 5%, 1/10W,DA, TP.2012           R520         BY230220         2007-000003         R-CHIP-43KOHM, 5%, 1/10W,DA, TP.2012           R523         70795022         2001-000080         R-CARBON, 220KOHM, 5%, 1/10W,DA, TP.2012           R524         70795029         2007-000518         R-CHIP-2-XKOHM, 5%, 1/10W,DA, TP.2012           R525         70796326         2007-000671         R-CHIP-2-XKOHM, 5%, 1/10W,DA, TP.2012           R570         70795683         2007-000290         R-CHIP-1000HM, 5%, 1/10W,DA, TP.2012           R601         BY230113         2007-000282         R-CHIP-1000HM, 5%, 1/10W,DA, TP.2012           R602         70795684         2007-000282         R-CHIP-1000HM, 5%, 1/10W,DA, TP.2012           R606         70795005         2001-000429					
R512         70795533         2007-000744         R-CHIP-33KOHM,5%,1/10W,DA,TP.2012           R514         70795705         2007-000941         R-CHIP-47KOHM,5%,1/10W,DA,TP.2012           R516         70795705         2007-000941         R-CHIP-47KOHM,5%,1/10W,DA,TP.2012           R517         70795541         2007-00003         R-CHIP-62KOHM,5%,1/10W,DA,TP.2012           R518         BY230220         2007-00003         R-CHIP-62KOHM,5%,1/10W,DA,TP.2012           R520         BY230220         2007-00003         R-CHIP-62KOHM,5%,1/10W,DA,TP.2012           R523         70795022         2001-000508         R-CARBON:220KOHM,5%,1/10W,DA,TP.2012           R524         70795529         2007-000518         R-CHIP:2.KOHM,5%,1/10W,DA,TP.2012           R525         70795683         2007-000671         R-CHIP:2.KOHM,5%,1/10W,DA,TP.2012           R571         70795683         2007-000290         R-CHIP:1000HM,5%,1/10W,DA,TP.2012           R501         BY230113         2007-000290         R-CHIP:1000HM,5%,1/10W,DA,TP.2012           R602         70795684         2007-000282         R-CHIP:1000HM,5%,1/10W,DA,TP.2012           R603         70795055         2001-000429         R-CHIP:1000HM,5%,1/10W,DA,TP.2012           R606         707950547         2001-000429         R-CARBON:160HM,5%,1/8W,AA,TP.18X3.					
R514   70795705   2007-000941   RCHIP-47KOHM.5%.1/10W.DA.TP.2012   R517   70795705   2007-000941   RCHIP-47KOHM.5%.1/10W.DA.TP.2012   R518   R5230220   2007-000003   RCHIP-6.2KOHM.5%.1/10W.DA.TP.2012   R519   70795541   2007-001055   RCHIP-6.2KOHM.5%.1/10W.DA.TP.2012   R520   R5230220   2007-000003   RCHIP-6.2KOHM.5%.1/10W.DA.TP.2012   R520   R5230220   2007-000508   RCHIP-6.2KOHM.5%.1/10W.DA.TP.2012   R523   70795022   2001-000508   RCHIP-43KOHM.5%.1/10W.DA.TP.2012   R524   70795529   2007-000518   RCHIP-2XOHM.5%.1/10W.DA.TP.2012   R525   70796326   2007-000671   RCHIP-2KOHM.5%.1/10W.DA.TP.2012   R570   70795683   2007-000671   RCHIP-1000HM.5%.1/10W.DA.TP.2012   R571   70795683   2007-000290   RCHIP-1000HM.5%.1/10W.DA.TP.2012   R571   70795684   2007-000290   RCHIP-1000HM.5%.1/10W.DA.TP.2012   R601   R5230113   2007-000124   RCHIP-560KOHM.5%.1/10W.DA.TP.2012   R603   70795583   2007-000124   RCHIP-1000HM.5%.1/10W.DA.TP.2012   R606   70795684   2007-000282   RCHIP-1000HM.5%.1/10W.DA.TP.2012   R606   70795683   2007-000290   RCHIP-1000HM.5%.1/10W.DA.TP.2012   R606   70795005   2001-000429   RCHIP-1000HM.5%.1/10W.DA.TP.2012   R608   70795005   2001-000429   RCHIP-1000HM.5%.1/10W.DA.TP.2012   R608   70795047   2001-000864   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R610   70795005   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R611   70795005   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R611   70795005   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R614   70795005   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R614   70795005   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R644   70795005   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R644   70795005   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R644   70795005   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R656   R9230038   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.TP.1.8X3.2MM   R656   R9230038   2001-000429   RCARBON.5KOHM.5%.1/8W.AA.					
R516         70795705         2007-000941         R-CHIP-47KOHM,5%,1/10W,DA,TP,2012           R517         70795541         2007-001055         R-CHIP-6,2KOHM,5%,1/10W,DA,TP,2012           R518         BY230220         2007-000003         R-CHIP-6,2KOHM,5%,1/10W,DA,TP,2012           R519         70795541         2007-001055         R-CHIP-6,2KOHM,5%,1/10W,DA,TP,2012           R520         BY230220         2007-000058         R-CHIP-43KOHM,5%,1/10W,DA,TP,2012           R523         70795529         2001-000508         R-CARBON;220KOHM,5%,1/10W,DA,TP,2012           R524         70795529         2007-000671         R-CHIP-2KOHM,5%,1/10W,DA,TP,2012           R555         70796326         2007-000671         R-CHIP:2KOHM,5%,1/10W,DA,TP,2012           R570         70795683         2007-000290         R-CHIP:1000HM,5%,1/10W,DA,TP,2012           R601         BY230113         2007-001024         R-CHIP:1000HM,5%,1/10W,DA,TP,2012           R602         70795683         2007-000290         R-CHIP:1000HM,5%,1/10W,DA,TP,2012           R603         707955055         2007-000290         R-CHIP:30KOHM,5%,1/10W,DA,TP,2012           R604         70795605         2001-000429         R-CARBON:150KOHM,5%,1/10W,DA,TP,2012           R607         70795005         2001-000429         R-CARBON:150KOHM,5%,1/8W,AA					
RS18					
R519         70795541         2007-001055         R-CHIP-6_ZKOHM, 5%, 1/10W, DA, TP,2012           R520         BY230220         2007-00003         R-CHIP-43KOHM, 5%, 1/10W, DA, TP,2012           R524         70795022         2001-000518         R-CARBON; 220KOHM, 5%, 1/10W, DA, TP,2012           R524         70795268         2007-000671         R-CHIP; 2KOHM, 5%, 1/10W, DA, TP,2012           R570         70795683         2007-000290         R-CHIP; 1000HM, 5%, 1/10W, DA, TP,2012           R571         70795683         2007-000290         R-CHIP; 1000HM, 5%, 1/10W, DA, TP,2012           R601         BY230113         2007-000282         R-CHIP; 1000HM, 5%, 1/10W, DA, TP,2012           R602         70795684         2007-000282         R-CHIP; 100KOHM, 5%, 1/10W, DA, TP,2012           R603         70795535         2007-000290         R-CHIP; 100KOHM, 5%, 1/10W, DA, TP,2012           R606         707950683         2007-000290         R-CHIP; 100KHM, 5%, 1/10W, DA, TP,2012           R607         70795055         2001-000429         R-CARBON; 1KOHM, 5%, 1/18W, AA, TP,1,8X3, 2MM           R608         70795047         2001-000864         R-CARBON; 16KOHM, 5%, 1/18W, AA, TP,1,8X3, 2MM           R610         70795055         2001-000429         R-CARBON; 1KOHM, 5%, 1/10W, DA, TP,2012           R611         707950	R517	70795541	2007-001055	R-CHIP;6.2KOHM,5%,1/10W,DA,TP,2012	
R520         BY230220         2007-00003         R-CHIP;43KOHM,5%,1/10W,DA,TP;2012           R523         70795022         2001-000508         R-CARBON;220KOHM,5%,1/10W,DA,TP;2012           R524         70795529         2007-000671         R-CHIP;2.7KOHM,5%,1/10W,DA,TP;2012           R525         70796326         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R571         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R601         BY230113         2007-001024         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R602         70795684         2007-000282         R-CHIP;100KOHM,5%,1/10W,DA,TP;2012           R603         70795683         2007-000282         R-CHIP;3,9KOHM,5%,1/10W,DA,TP;2012           R606         70795083         2007-000290         R-CHIP;100CHM,5%,1/10W,DA,TP;2012           R607         70795083         2007-000290         R-CHIP;3,9KOHM,5%,1/10W,DA,TP;2012           R608         70795083         2007-000290         R-CHIP;100CHM,5%,1/10W,DA,TP;2012           R608         70795083         2007-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP;2012           R607         70795047         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP;2012           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,					
R523         70795022         2001-000508         R-CARBON:220KOHM,5%,1/8W,AA,TP,1.8X3.2M           R524         70795529         2007-000518         R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012           R570         70795632         2007-000290         R-CHIP;100OHM,5%,1/10W,DA,TP,2012           R571         70795683         2007-000290         R-CHIP;100OHM,5%,1/10W,DA,TP,2012           R601         BY230113         2007-001024         R-CHIP;100OHM,5%,1/10W,DA,TP,2012           R602         70795684         2007-000282         R-CHIP;100KOHM,5%,1/10W,DA,TP,2012           R603         70795535         2007-000710         R-CHIP;30KOHM,5%,1/10W,DA,TP,2012           R606         70795683         2007-000290         R-CHIP;100OHM,5%,1/10W,DA,TP,2012           R607         70795085         2001-000290         R-CHIP;100OHM,5%,1/10W,DA,TP,2012           R608         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R609         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R641         70795004         2007-000031         R-CHIP;1KOHM,5					
R524         70795529         2007-000518         R-CHIP;2.7KOHM,5%,1/10W,DA,TP;2012           R525         70796326         2007-000671         R-CHIP;2KOHM,5%,1/10W,DA,TP;2012           R570         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R571         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R601         BY230113         2007-001024         R-CHIP;560KOHM,5%,1/10W,DA,TP;2012           R603         70795535         2007-000710         R-CHIP;3.9KOHM,5%,1/10W,DA,TP;2012           R604         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R606         70795683         2007-000710         R-CHIP;3.9KOHM,5%,1/10W,DA,TP;2012           R606         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R607         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP;2012           R608         70795047         2001-000844         R-CARBON;16KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R641         70795704         2007-000931         R-CHIP;1KOHM,5%					
R525         70796326         2007-000671         R-CHIP;2KOHM,5%,1/10W,DA,TP;2012           R570         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R601         BY230113         2007-000290         R-CHIP;1000DHM,5%,1/10W,DA,TP;2012           R602         70795684         2007-000282         R-CHIP;100KOHM,5%,1/10W,DA,TP;2012           R603         7079535         2007-000710         R-CHIP;3.9KOHM,5%,1/10W,DA,TP;2012           R606         70795683         2007-000290         R-CHIP;100OHM,5%,1/10W,DA,TP;2012           R607         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R608         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;56KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R613         70795015         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R641         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP;1.8X3.2MM           R644         70795005         2001-000429         <					
R570         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R571         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R601         BY230113         2007-001024         R-CHIP;560K0HM,5%,1/10W,DA,TP;2012           R602         70795684         2007-000282         R-CHIP;560K0HM,5%,1/10W,DA,TP;2012           R603         70795535         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R606         70795005         2001-000429         R-CARBON;1K0HM,5%,1/8W,AA,TP;1.8X3.2MM           R608         70795047         2001-000864         R-CARBON;56K0HM,5%,1/8W,AA,TP;1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;56K0HM,5%,1/8W,AA,TP;1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1K0HM,5%,1/8W,AA,TP;1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1K0HM,5%,1/8W,AA,TP;1.8X3.2MM           R614         70795005         2001-000429         R-CARBON;1K0HM,5%,1/8W,AA,TP;1.8X3.2MM           R614         70795005         2001-000429         R-CARBON;1K0HM,5%,1/8W,AA,TP;1.8X3.2MM           R641         70795004         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP;2012           R642         70795704         2007-000931					
R571         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP;2012           R601         BY230113         2007-001024         R-CHIP;560KOHM,5%,1/10W,DA,TP;2012           R602         70795684         2007-000282         R-CHIP;100KOHM,5%,1/10W,DA,TP;2012           R603         70795535         2007-000290         R-CHIP;100KOHM,5%,1/10W,DA,TP;2012           R606         70795683         2007-000290         R-CHIP;100OHM,5%,1/10W,DA,TP;2012           R607         70795005         2001-000429         R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R608         70795047         2001-000864         R-CARBON:56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000429         R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON:1KOHM,5%,1/10W,DA,TP,2012           R613         70795015         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON:1KOHM,5%,1/10W,DA,TP,2012           R641         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R650         BY230038         2001-000429         R-CARBON:1KOHM,					
R601         BY230113         2007-001024         R-CHIP;560KOHM,5%,1/10W,DA,TP,2012           R602         70795684         2007-000282         R-CHIP;100KOHM,5%,1/10W,DA,TP,2012           R603         70795535         2007-000270         R-CHIP;3,9KOHM,5%,1/10W,DA,TP,2012           R606         70795683         2007-000290         R-CHIP;100OHM,5%,1/10W,DA,TP,2012           R607         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R608         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R613         70795015         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R650         BY230031         2007-000041         R-CH					
R603         70795535         2007-000710         R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012           R606         70795683         2007-000290         R-CHIP;100OHM,5%,1/10W,DA,TP,2012           R607         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R609         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R613         70795515         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R641         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R651         BY230243         2003-00011         R-METAL OXIDE;0.470hm,5%,1/W,AD,TP,4.3x12           R651         BY230091         2007-000941         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000412					
R606         70795683         2007-000290         R-CHIP;1000HM,5%,1/10W,DA,TP,2012           R607         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R608         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R609         70795047         2001-000429         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R641         70795704         2007-000931         R-CHIP;470OHM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;470OHM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R650         BY230243         2003-000111         R-METAL OXIDE;0.470hm,5%,1/8W,AA,TP,1.8X3.2MM           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.KOHM,5%,1/10W,DA,TP,2012           R655         70795705         2007-000241					
R607         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R608         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R609         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R613         70795515         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R641         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R650         BY230243         2003-000111         R-METAL OXIDE;0.470hm,5%,1/W,AD,TP,4.3x12           R651         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/10W,DA,TP,2012           R655         70795705         2007-000241         <					
R608         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R609         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,1.8X3.2MM           R613         70795515         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R641         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R650         BY230243         2003-000111         R-METAL OXIDE;0.47ohm,5%,1W,AD,TP,4.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/10W,DA,TP,2012           R655         70795705         2007-000241         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R					
R609         70795047         2001-000864         R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R610         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/18W,AA,TP,1.8X3.2MM           R613         70795515         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R641         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R650         BY230243         2003-000111         R-METAL OXIDE;0.470hm,5%,1W,AD,TP,4.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000241         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010					
R610         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R613         70795515         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R641         70795704         2007-009931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R650         BY230243         2003-000111         R-METAL OXIDE;0.470hm,5%,1W,AD,TP,41.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000241         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010         R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R660         70795041         2001-000786					
R611         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R613         70795515         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/18W,AA,TP,1.8X3.2MM           R641         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R642         70795005         2001-000429         R-CARBON;1KOHM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R650         BY230243         2003-000111         R-METAL OXIDE;0.470hm,5%,1W,AD,TP,4.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000241         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;15KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010         R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R660         70795041         2001-000786         R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R613         70795515         2007-000468         R-CHIP;1KOHM,5%,1/10W,DA,TP,2012           R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R641         70795704         2007-000931         R-CHIP;470OHM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;470OHM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R650         BY230243         2003-000111         R-METAL OXIDE;0.470hm,5%,1W,AD,TP,4.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000941         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010         R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R660         70795041         2001-000786         R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R614         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R641         70795704         2007-000931         R-CHIP;470OHM,5%,1/10W,DA,TP,2012           R642         70795704         2007-000931         R-CHIP;470OHM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R650         BY230243         2003-000111         R-METAL OXIDE;0.470hm,5%,1W,AD,TP,4.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000941         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010         R-CARBON;68KOHM,5%,1/10W,DA,TP,1.8X3.2MM           R660         70795041         2001-000786         R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R642         70795704         2007-000931         R-CHIP;4700HM,5%,1/10W,DA,TP,2012           R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R650         BY230243         2003-000111         R-METAL OXIDE;0.47ohm,5%,1W,AD,TP,4.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000941         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010         R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R660         70795041         2001-000786         R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	R614			R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R644         70795005         2001-000429         R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R650         BY230243         2003-000111         R-METAL OXIDE;0.47ohm,5%,1W,AD,TP,4.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000941         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010         R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R660         70795041         2001-000786         R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R650         BY230243         2003-000111         R-METAL OXIDE;0.47ohm,5%,1W,AD,TP,4.3x12           R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000941         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;15KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010         R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R660         70795041         2001-000786         R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R651         BY230091         2007-000001         R-CHIP;68KOHM,5%,1/10W,DA,TP,2012           R654         BY230038         2001-000812         R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M           R655         70795705         2007-000941         R-CHIP;47KOHM,5%,1/10W,DA,TP,2012           R656         70795520         2007-000241         R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012           R657         70795052         2001-000010         R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM           R660         70795041         2001-000786         R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R654 BY230038 2001-000812 R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M R655 70795705 2007-000941 R-CHIP;47KOHM,5%,1/10W,DA,TP,2012 R656 70795520 2007-000241 R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012 R657 70795052 2001-000010 R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM R660 70795041 2001-000786 R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R655 70795705 2007-000941 R-CHIP;47KOHM,5%,1/10W,DA,TP,2012 R656 70795520 2007-000241 R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012 R657 70795052 2001-000010 R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM R660 70795041 2001-000786 R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R656 70795520 2007-000241 R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012 R657 70795052 2001-000010 R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM R660 70795041 2001-000786 R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R657 70795052 2001-000010 R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM R660 70795041 2001-000786 R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R660 70795041 2001-000786 R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
R661 70795533 2007-000774 R-CHIP;33KOHM,5%,1/10W,DA,TP,2012					
	R661	70795533	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	

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Loc.No.	TSB Parts No.	Reference No.	Description ; Specification	Remark
R666	70795704	2007-000931	R-CHIP;4700HM,5%,1/10W,DA,TP,2012	
R667	70795704	2007-000931	R-CHIP;4700HM,5%,1/10W,DA,TP,2012	
R668	70795006	2001-000290	R-CARBON;10K0HM,5%,1/8W,AA,TP,1.8X3.2MM	
R669 R670	70795006 70795589	2001-000290 2007-000872	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R670	70795589	2007-000872	R-CHIP,4.7KOHM,5%,1710W,DA,1P,2012 R-CHIP,4.7KOHM,5%,1/10W,DA,TP,2012	
R672	70795589	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
R674	70795006	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R675	BY230164	2001-000032	R-CARBON;1800HM,5%,1/4W,AA,TP,2.4X6.4MM	
R676	72532205	2007-000738	R-CHIP;30KOHM,5%,1/10W,DA,TP,2012	
R677	70795527	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R678	70795527	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R679 R682	70795525 70795527	2007-000572 2007-000586	R-CHIP;2200HM,5%,1/10W,DA,TP,2012 R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
R685	70795533	2007-000388	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
R686	70795005	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R687	70795005	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R688	70795005	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R690	70795708	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
R691	70795525	2007-000572	R-CHIP;2200HM,5%,1/10W,DA,TP,2012	
R692	70795024	2001-000568	R-CARBON;270HM,5%,1/8W,AA,TP,1.8X3.2MM	
R693	70795705	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
R694 R698	70795705 70795516	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
R698 R699	70795516 70795516	2007-000300 2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012 R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R699 R6P05	70795006	2007-000300	R-CARBON;10K0HM,5%,1710W,DA,1P,2012 R-CARBON;10K0HM,5%,178W,AA,TP,1.8X3.2MM	
R6P07	70795004	2001-000290	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
R6P08	70795534	2007-000822	R-CHIP;3900HM,5%,1/10W,DA,TP,2012	
R6P09	70795526	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
R6P11	70795534	2007-000822	R-CHIP;3900HM,5%,1/10W,DA,TP,2012	
R701	70795006	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R702	70795006	2001-000290	R-CARBON;10K0HM,5%,1/8W,AA,TP,1.8X3.2MM	
R703 R704	70795006 70795006	2001-000290 2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R704 R705	70795006	2001-000290	R-CARBON; 10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R706	70795006	2001-000290	R-CARBON;10K0HM,5%,1/8W,AA,TP,1.8X3.2MM	
R707	70795006	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R708	70795006	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R710	70795054	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R711	70795020	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R712	70795020	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R713	70795020	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R714 R715	70795020 70795020	2001-000449 2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R716	70795020	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
R717	70795054	2001-000949	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R718	70795054	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R719	70795054	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R720	70795054	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R721	70795054	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R722	70795054	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
R723	70795054	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM R-CARBON:15KOHM.5%.1/8W.AA.TP.1.8X3.2MM	
R727 R728	70795014 70795014	2001-000008 2001-000008	R-CARBON; 15KOHM, 5%, 1/8W, AA, TP, 1.8X3.2IVIIVI R-CARBON; 15KOHM, 5%, 1/8W, AA, TP, 1.8X3.2IVIIVI	
R720 R731	70795516	2007-000300	R-CHIP;10K0HM,5%,1/10W,DA,TP,2012	
R753	70795684	2007-000300	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
R802	70795523	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R803	70795523	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R805	70795515	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R806	70795515	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R807	BY230097	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
R812	BY230097	2007-001166	R-CHIP;750HM,5%,1/10W,DA,TP,2012	
R813 R814	70795515 70795515	2007-000468 2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012 R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R815	70795515	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012 R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R816	70795515	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R828	70795683	2007-000290	R-CHIP;1000HM,5%,1/10W,DA,TP,2012	
R855	70795054	2001-000969	R-CARBON;750HM,5%,1/8W,AA,TP,1.8X3.2MM	
W079	70795040	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
W080	70795040	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
W140	70795004	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
W175 W199	70795004 70795513	2001-000281 2007-000029	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM R-CHIP;00HM,5%,1/10W,DA,TP,2012	
W304	70795004	2007-000029	R-CARBON;1000HM,5%,1710W,DA,1P,2012 R-CARBON;1000HM,5%,178W,AA,TP,1.8X3.2MM	
W750	70795513	2007-000281	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
W751	70795513	2007-000027	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
	70795513	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012	
W752	10193313	2007 000027	1 OTH 7001111,070,17 1011,D71,11 ,2012	
W752 W754 W755	70795513 70795513 70795513	2007-000029 2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012 R-CHIP;00HM,5%,1/10W,DA,TP,2012	

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Loc.No.	TSB Parts No.	Reference No.	Description ; Specification	Remark						
W756	70795513	2007-000029	R-CHIP;00HM,5%,1/10W,DA,TP,2012							
< MISCE	< MISCELLANEOUS >									
CN1SS1	70796223	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA							
CN301	70796387	3708-000391	CONNECTOR-FPC/FC/PIC;10P,1.25MM,STRAIGHT							
CN3A01	BY634023	3708-001165	CONNECTOR-FPC/FC/PIC;6P,1.25mm,STRAIGHT,							
CN3A02	BY634412	3710-001648	CONNECTOR-SOCKET;2P,1R,2.5mm,STRAIGHT,SN							
CN601	BY634047	AC39-20817S	LEAD CONNECTOR-ASSY;DP,SMH200-02,YBH200-							
CN602	BY634038	3708-001302	CONNECTOR-FPC/FC/PIC;7P,1.25mm,STRAIGHT,							
CN604	BY634026	3711-003749	CONNECTOR-HEADER;BOX,8P,2R,2mm,STRAIGHT,							
CN708	BY634434	3711-004774	CONNECTOR-HEADER;3WALL,15P,1R,2mm,STRAIG							
CN710	BY634433	3711-004773	CONNECTOR-HEADER;3WALL,12P,1R,2mm,STRAIG							
CN7FT1	BY634432	3710-001692	CONNECTOR-SOCKET;12P,1R,2mm,ANGLE,SN							
CN7FT2	BY634431	3710-001691	CONNECTOR-SOCKET;15P,1R,2mm,ANGLE,SN							
DT701	BY430052	AC07-00010A	LED DISPLAY;A-325EG,TS10,46,8,6,52.6x21,							
F1SS01	BY634112	3601-001123	FUSE-CARTRIDGE;250V,1.6A,TIME-LAG,CERAMI	<u>^</u>						
FC1SS1	BY634083	3602-000103	FUSE-CLIP;-,-,10mohm							
FC1SS2	BY634083	3602-000103	FUSE-CLIP;-,-,10mohm							
JC801	BY634436	3722-001577	JACK-RCA;6P,3.5mm,NI,BLK,-							
JK701	BY634408	AC37-00006A	JACK—PIN;3.2MM,DPSE-9872,3P,ARREY,10MM							
PT1SS1	BY330068	AC26-00002C	TRANS SWITCHING;-,-,EE2621,-,UL/CSA/DEMK	$\Delta$						
RM701	BY630162	AC32-00006A	MODULE REMOCON;TSOP2238WE1,38KHZ,-,5.08m							
RS601	BY632005	AC34-20100B	SWITCH-REC;-,-,X-9,-							
SW1701	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW1702	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW1703	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW1709	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW1714	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW1715	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW1716	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW1717	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW1718	70795181	3404-001008	SWITCH-TACT;15V,20mA,160gf,6x7.9x3.5mm,S							
SW601	BY632004	AC34-20100A	SWITCH-MODE;-,-,X-9,-							
SW713	BY632001	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST							
TM401	BY730631	AC40-00001H	TM-BLOCK;TCMK0601PD11A,G/I/K(HIFI),TCMK							
VA1SS1	BY634022	1405-001026	VARISTOR;470V,600A,9x7mm,TP	$\Delta$						
XT301	BY633009	2801-001397	CRYSTAL-UNIT;4.433619MHZ,HC-49/U-S 15PPM							
XT302	BY633012	2801-003399	CRYSTAL-UNIT;3.579545MHz,15ppm,28-AAA,S,							
XT4N01	BY633011	2801-003171	CRYSTAL-UNIT;18.432MHz,20PPM,28-AAM,4PF,							
XT601	BY633003	2801-003318	CRYSTAL-UNIT;32.768KHz,20ppm,28-AAP,12.5							
XT602	BY633010	2801-003139	CRYSTAL-UNIT;8MHz,50ppm,28-AAA,22pF,80oh							

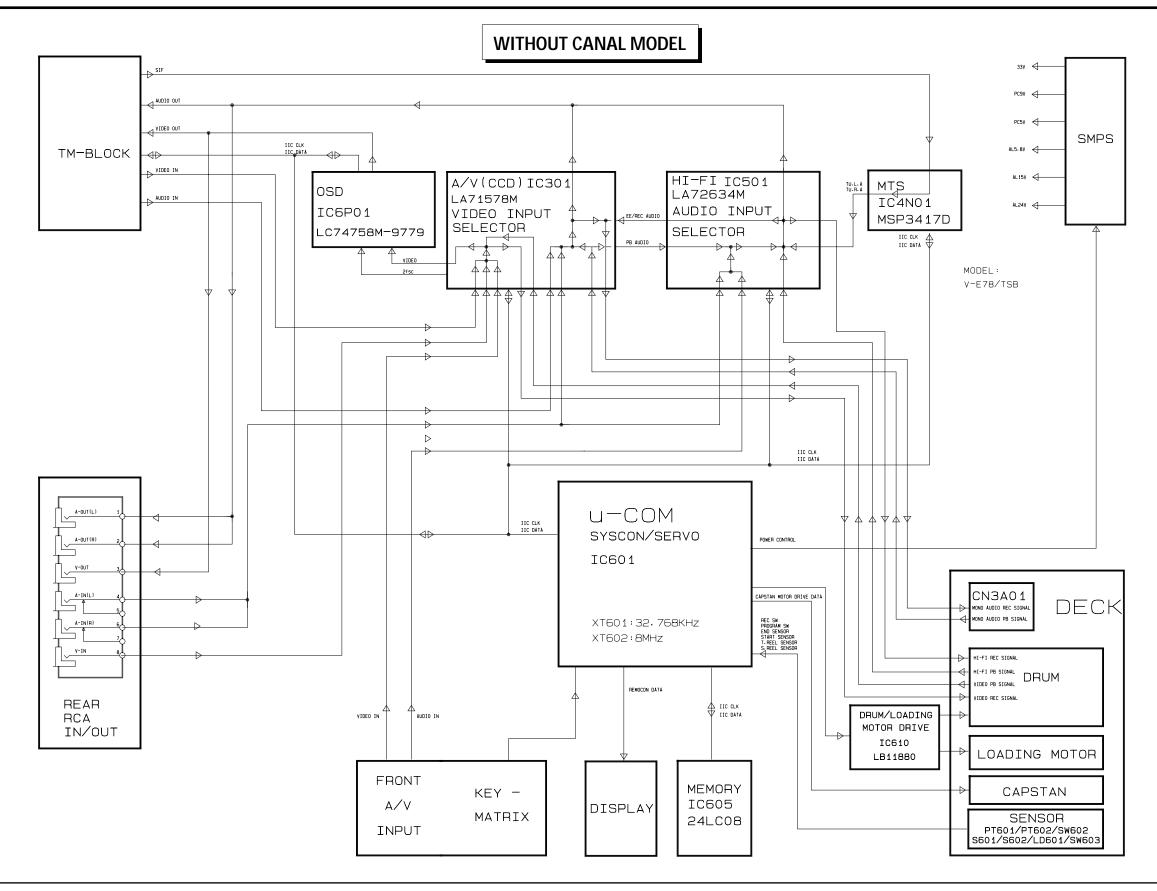
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## **TOSHIBA**

## SERVICE MANUAL

# VIDEO CASSETTE RECORDER **V-E78**

# 8. Block Diagram



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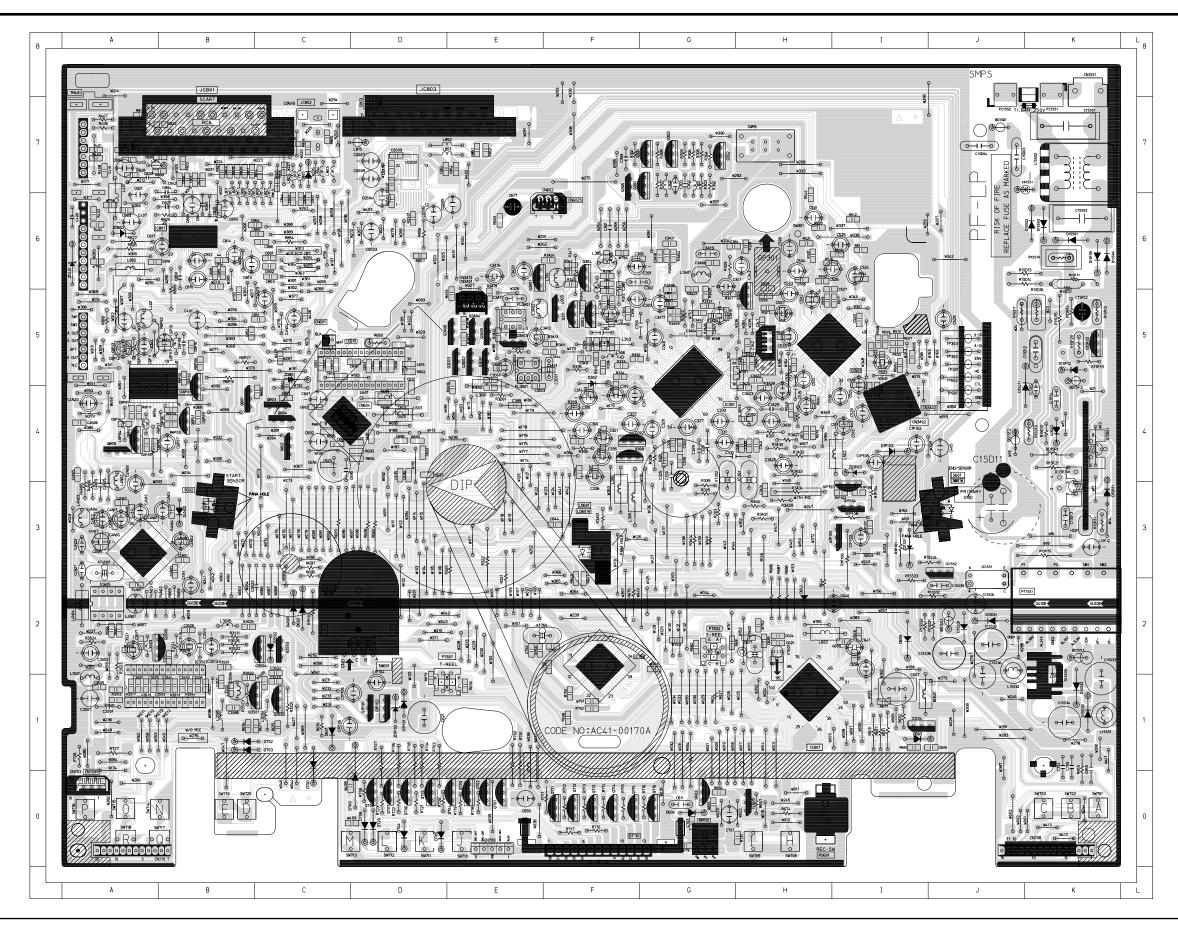
# **MEMO**

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# 9. PCB Diagrams

9-1 Main	9-2
9-2 Function	9-4

## 9-1 Main

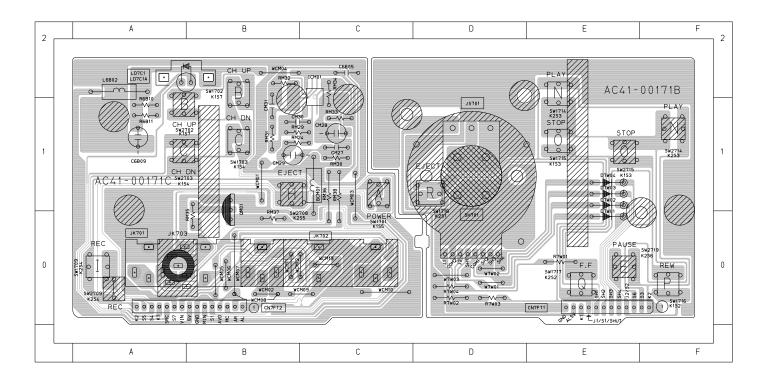


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*** CONDENSER ***	*** TR ***	*** IC8WAFER ***	*** CHIP ***			
C1P102 (I4)	IC1552 (J3)	CNISSI (K8)	BD1SD1 (J7)	L814 (A7)	R1P101 (I3)	TP601 (J4)
C1P103 (I3)	IC604 (I1)	CN703 (A0)	BD1SF2 (J4)	L815 (C7) L851 (D7)	R1P103 (C2) R1P104 (I3)	TP602 (J5
C1P104 (D1) C1P105 (D1)	IC608 (H0) Q1P101 (D1)	CN708 (K0) CN709 (E0)	BD1SF3 (K5) BD1SR1 (K4)	L852 (D7)	R1P108 (I3)	VA1SS1 (K7 R854 (C6)
C1P106 (C1)	Q1P102 (D1)	CN710 (B0)	BD1SS2 (J2)	LD601 (F3)	R1SD11 (K6)	R855 (K0)
C1P108 (I4)	Q1P103 (I3)	IC3S01 (A1)	BD1SS3 (K2)	PT601 (D1)	R1SD12 (K4)	R856 (D6)
C1SD03 (J7)	Q1P104 (I3)	IC605 (A2)	BD601 (I1)	PT602 (G2)	R1SD13 (J6) R1SD14 (J6)	XT301 (H3
C1SD04 (J7) C1SD12 (K5)	Q1P105 (I3) Q1SR02 (K5)	IC610 (D5)	C390 (G5) C3A29 (H4)	Q1SR01 (K4) R1P106 (I3)	R1SD15 (K5)	XT302 (G3 XT4N01 (A3
C1SD13 (K3)	Q302 (F4)		C3Q1 (F6)	R1SD31 (J2)	R1SD16 (K5)	XT602 (H2
C1SF12 (K3)	Q303 (F5)		C3S22 (C2)	R1SD32 (I2)	R1SF11 (K6)	XT750 (F2
C1SR12 (K5) C1SR14 (K4)	Q304 (F6) Q307 (F5)		C4N19 (A3) C4N25 (A3)	R1SF21 (K4) R301 (H4)	R1SF15 (K3) R1SF19 (K5)	
C1SS01 (K7)	Q308 (F4)		C513 (H4)	R303 (G3)	R1SF20 (K5)	
C1SS02 (K6)	Q309 (H5)		C695 (C4)	R314 (F5)	R1SR11 (K3)	
C1SS12 (K4) C1SS31 (J2)	Q311 (F5) Q3A01 (E6)		C6P08 (B5) C804 (A7)	R320 (E2) R321 (E2)	R1SR12 (K5) R1SR14 (K5)	
C15537 (32)	Q3A03 (E5)		C827 (A6)	R322 (E2)	R1SS10 (K6)	
C1SS33 (K1)	Q3A04 (E5)		C830 (A7)	R347 (F6)	R1SS11 (J5)	
C1SS34 (K1)	Q3A05 (E5)		C850 (B6)	R3A01 (F3)	R15S13 (K4) R1SS32 (J2)	
C1SS35 (J2) C1SS36 (J2)	Q3A06 (E5) Q3D01 (E5)		CN301 (H5) CN3A01 (E5)	R3A10 (G5) R3A14 (G3)	R1SS33 (I2)	
C1SS39 (J2)	Q3D02 (E5)		CN3A02 (I4)	R3A27 (H4)	R1SS34 (I3)	
C301 (F6)	Q3D03 (E5)		CN601 (C5)	R3A30 (H4)	R305 (G3)	
C302 (F6) C303 (F5)	Q3Q1 (G6) Q3Q2 (G7)		CN602 (E6) CN604 (C4)	R3A32 (H4) R3A33 (H4)	R306 (F4) R308 (G4)	
C309 (F5)	Q3Q3 (G7)		CON/B (C7)	R3A34 (H3)	R329 (G6)	
C310 (F4)	Q3Q4 (G7)		DT701 (F0)	R3S14 (B2)	R335 (F5)	
C311 (F4) C314 (F4)	Q3Q5 (F7) Q3S01 (C1)		FC1SS1 (K8) FC1SS2 (J8)	R3S21 (C1) R408 (A7)	R339 (G3) R346 (H3)	
C315 (F4)	Q3502 (C1)		FL3A01 (E5)	R4N02 (A2)	R3A29 (H3)	
C320 (G4)	Q3S03 (C2)		FL3D01 (E5)	R4N03 (A2)	R3A31 (H3)	
C321 (F4) C322 (F4)	Q3S04 (C2) Q3S05 (B2)		HS01 (K3) IC1SF1 (K3)	R4N06 (A3) R608 (D3)	R3D01 (E4) R3D03 (E5)	
C325 (G4)	Q602 (G0)		JC801 (A7)	R609 (C3)	R3Q1 (F7)	
C327 (G4)	Q6P01 (B4)		JC802 (C7)	R614 (G1)	R302 (G6)	
C328 (G4) C329 (G4)	Q6P02 (B4) Q6P03 (A4)		JC803 (D7) L1SS02 (K7)	R618 (C1) R644 (H2)	R3Q3 (G6) R3Q4 (G7)	
C330 (G4)	Q701 (E0)		L15531 (K1)	R660 (D3)	R3Q5 (G7)	
C331 (G4)	Q702 (E0)		L15532 (J2)	R668 (B2)	R3Q6 (G7) R3Q7 (G6)	
C332 (G4) C333 (G4)	Q703 (E0) Q704 (E0)		L301 (F5) L302 (H5)	R669 (B2) R674 (H0)	R3Q8 (G7)	
C335 (F4)	Q705 (D0)		L303 (F5)	R675 (F2)	R3Q9 (G7)	
C336 (F4) C341 (G6)	Q706 (D0) Q707 (D0)		L304 (F3) L305 (F3)	R686 (H2) R687 (H2)	R3S03 (B1) R3S11 (B2)	
C343 (H6)	Q708 (D0)		L305 (F5)	R688 (H2)	R3522 (B2)	
C346 (G5)	Q711 (F0)		L310 (F6)	R695 (C3)	R3S23 (A1)	
C360 (F4) C382 (F5)	Q712 (F0) Q713 (F0)		L385 (F6) L3A01 (G6)	R697 (C3) R6P01 (A4)	R3S24 (A2) R3S26 (B2)	
C393 (F7)	Q714 (F0)		L3A02 (E5)	R6P02 (A5)	R406 (A7)	
C3A01 (G5)	Q715 (F0)		L3A03 (H4)	R6P07 (C5)	R407 (A7)	
C3A09 (G6) C3A11 (E5)	Q716 (G0) Q801 (B4)		L3D01 (E4) L3Q1 (G7)	R6P10 (C5) R711 (F0)	R4N05 (A3) R523 (H4)	
C3A12 (E5)	Q802 (C4)		L3Q2 (G6)	R809 (B5)	R607 (I1)	
C3A16 (E6)	Q803 (C4)		L3S01 (A1)	R818 (A5)	R610 (I1)	
C3A17 (G5) C3A20 (E6)	Q804 (C4) Q805 (A4)		L3S02 (B1) L3S03 (A2)	R825 (A6) R826 (A6)	R611 (I1) R650 (D5)	
C3A23 (H4)	4000		L3S04 (C1)	R827 (A6)	R654 (G0)	
C3A25 (H4) C3A30 (H4)			L3S05 (B2)	RM701 (G0)	R657 (H0) R692 (I1)	
C3D01 (F5)			L3S85 (B1) L401 (A7)	RS601 (H0) S601 (J3)	R6P05 (A5)	
C3D02 (E5)			L402 (A5)	S602 (B3)	R701 (E0)	
C3Q2 (G7)			L4N01 (A2)	SQPB (H7) SW601 (C2)	R702 (E0) R703 (D0)	
C3Q3 (G7) C3S01 (A1)			L4N02 (A3) L4N03 (A3)	SW701 (K0)	R704 (D0)	
C3502 (A2)			L4N04 (A2)	SW702 (K0)	R705 (D0)	
C3S07 (A1) C3S13 (B2)			L502 (I4) L601 (D4)	SW703 (K0) SW708 (H0)	R706 (D0) R707 (D0)	
C3514 (B2)			L602 (H2)	SW709 (H0)	R708 (D0)	
C3S15 (B2)			L603 (D4)	SW710 (E0)	R710 (F0)	
C3S21 (A2) C401 (B5)			L6P03 (B5) L6P04 (A4)	SW711 (D0) SW712 (D0)	R712 (F0) R713 (F0)	
C401 (B3)			L6P05 (A4)	SW713 (D0)	R714 (F0)	
C404 (B3)			L802 (A6)	SW714 (B0)	R715 (F0)	
C405 (J4)			L803 (C7)	SW715 (A0)	R716 (G0) R717 (F0)	
C406 (A6) C407 (A6)			L804 (C7) L805 (B6)	SW716 (A0) SW717 (B0)	R718 (E0)	
C4N02 (B3)			L806 (B6)	SW718 (A0)	R719 (E0)	
C4N04 (B3)			L807 (C6)	SW719 (B0)	R720 (D0) R721 (D0)	
C4N09 (A3) C4N10 (A3)			L808 (C6) L809 (C7)	SW720 (B0) TM401 (A7)	R722 (D0)	
C4N11 (A3)			L810 (C7)	TP301 (J5)	R723 (D0)	
C4N14 (A3) C4N16 (A3)			L811 (B6) L812 (C6)	TP302 (J5) TP303 (J5)	R727 (A1) R728 (A1)	
34M10 1M31			2012 1001	11 000 1001	== 1001	

Toshiba 9-3

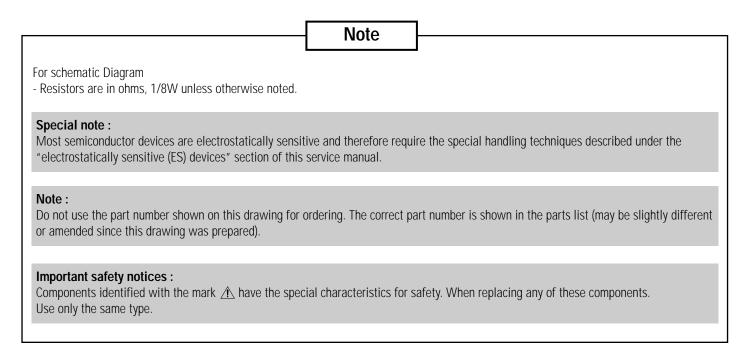
## 9-2 Function



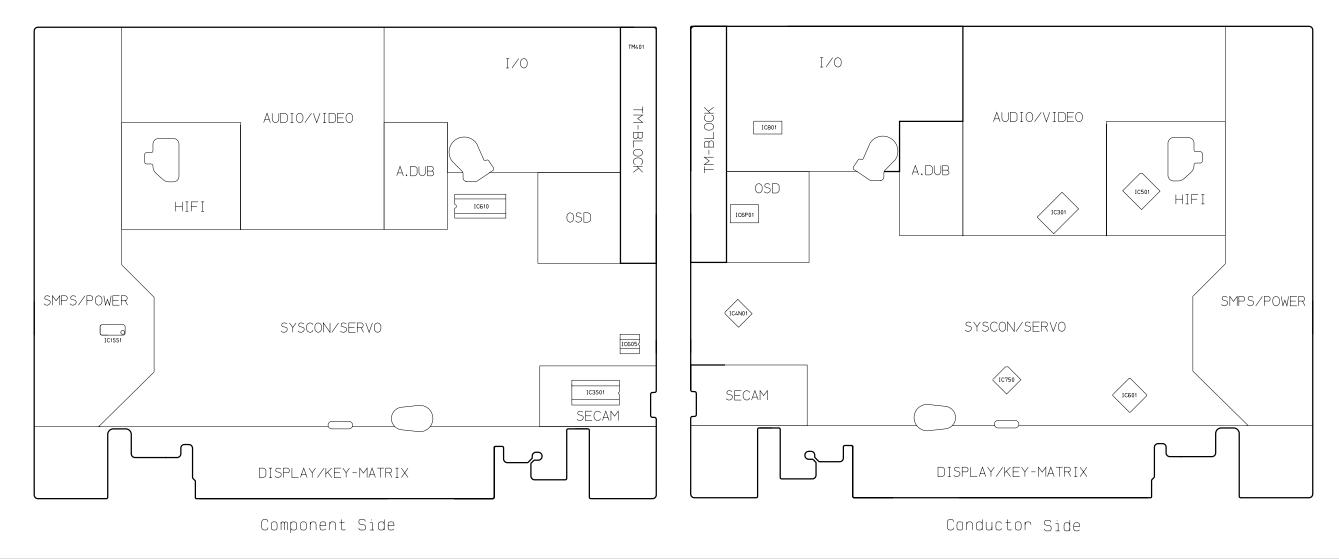
9-4 Toshiba

# 10. Schematic Diagrams

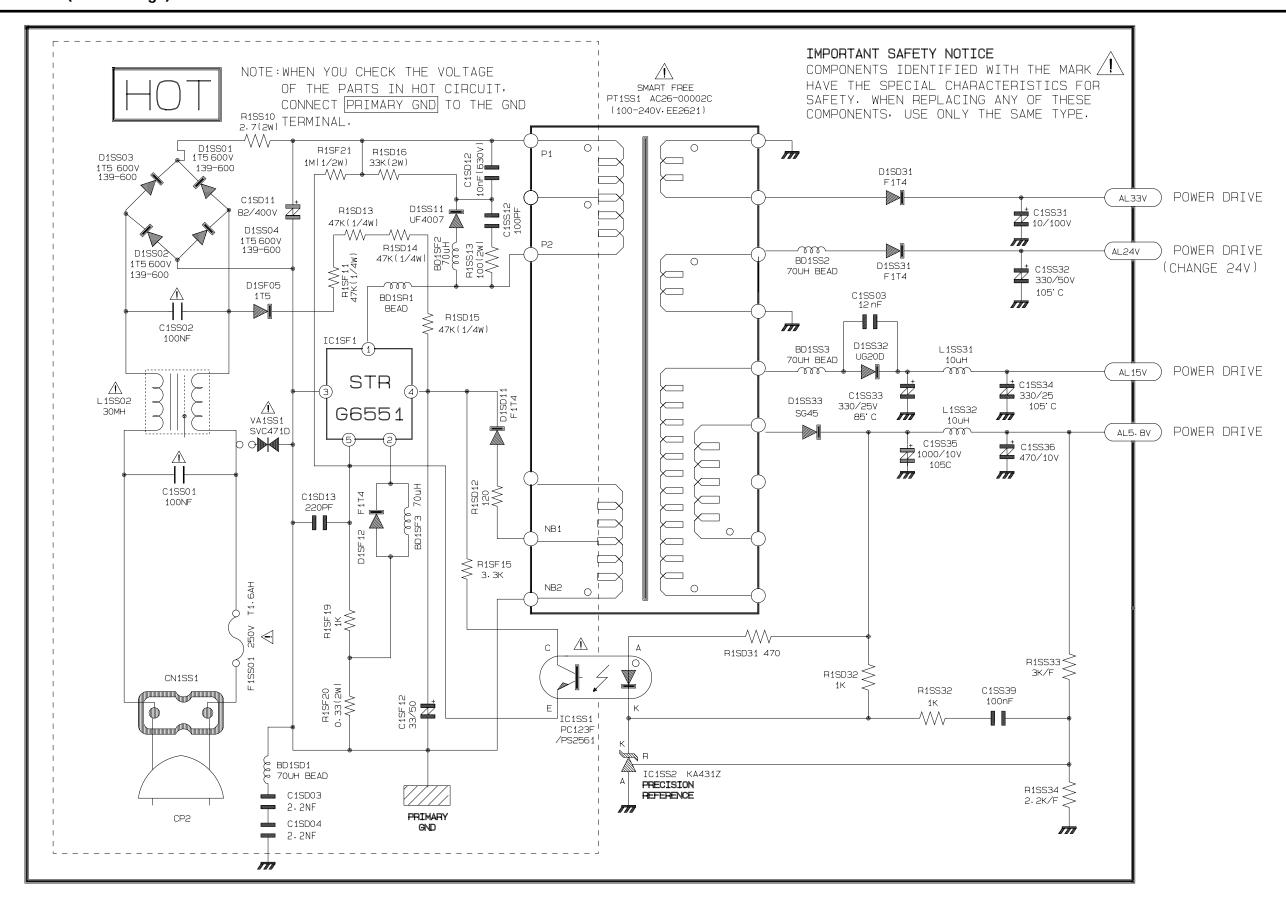
♦ Block Identification of Main PCB	10-2
10-1 S.M.P.S (Free Voltage)	10-3
10-2 Power	10-4
10-3 System Control/Servo/Display	10-5
10-4 Audio/Video	10-6
10-5 Hi-Fi	10-7
10-6 TM-Block	10-8
10-7 A2/NICAM	10-9
10-8 VPS/PDC	10-10
10-9 Input-Output	10-11
10-10 F-AV ASSY	10-12



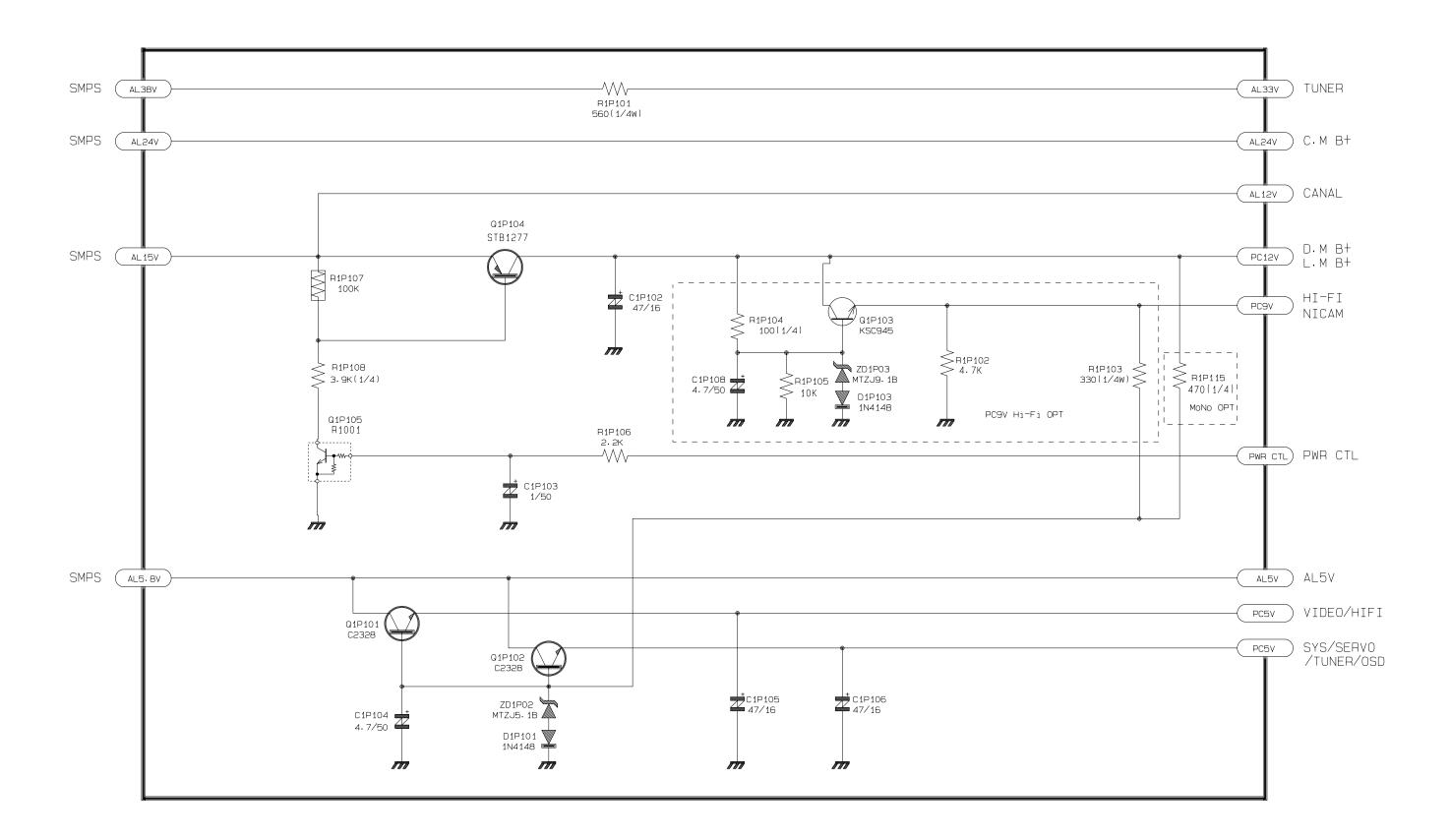
#### **♦** Block Identification of Main PCB



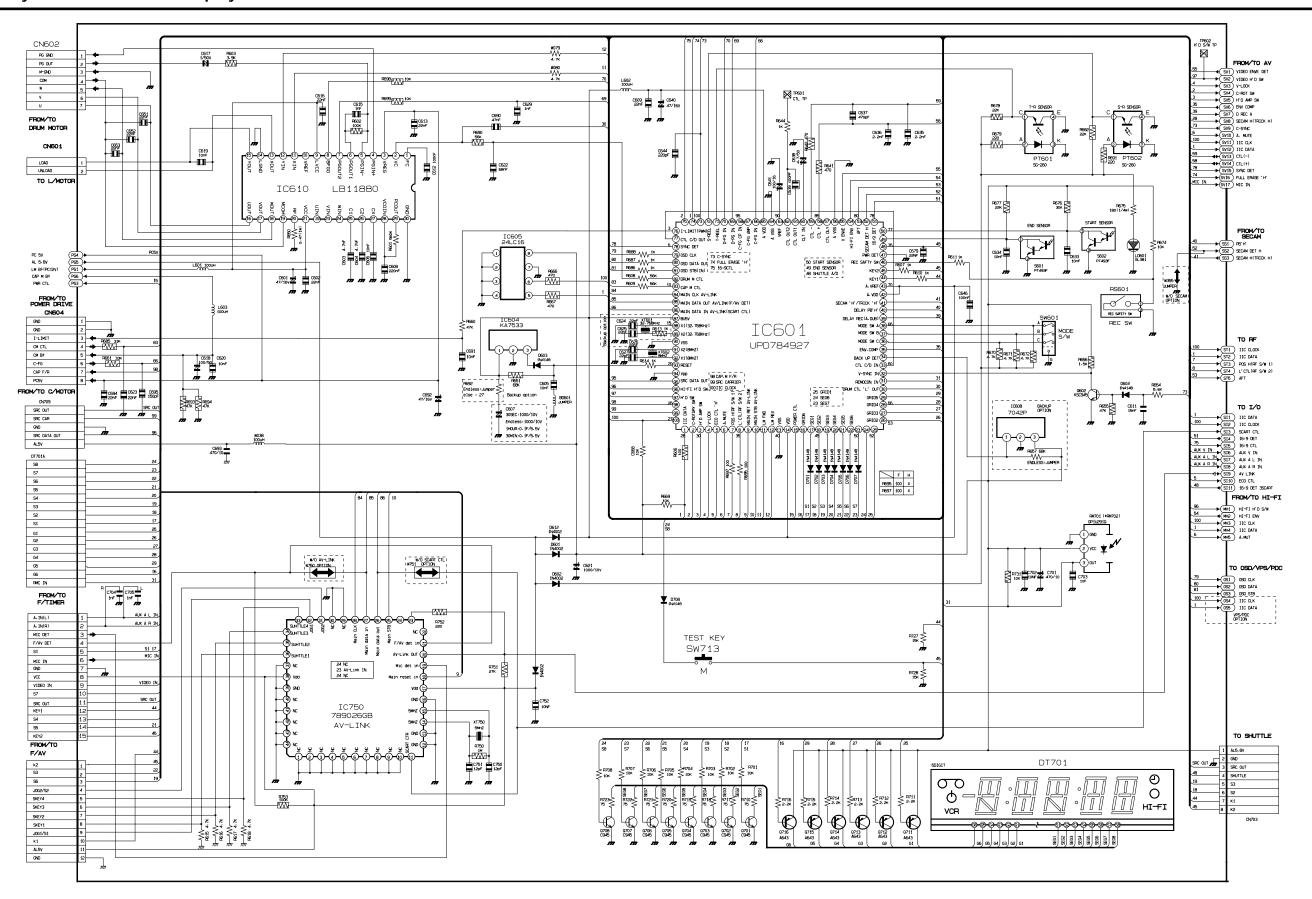
## 10-1 S.M.P.S (Free Voltage).



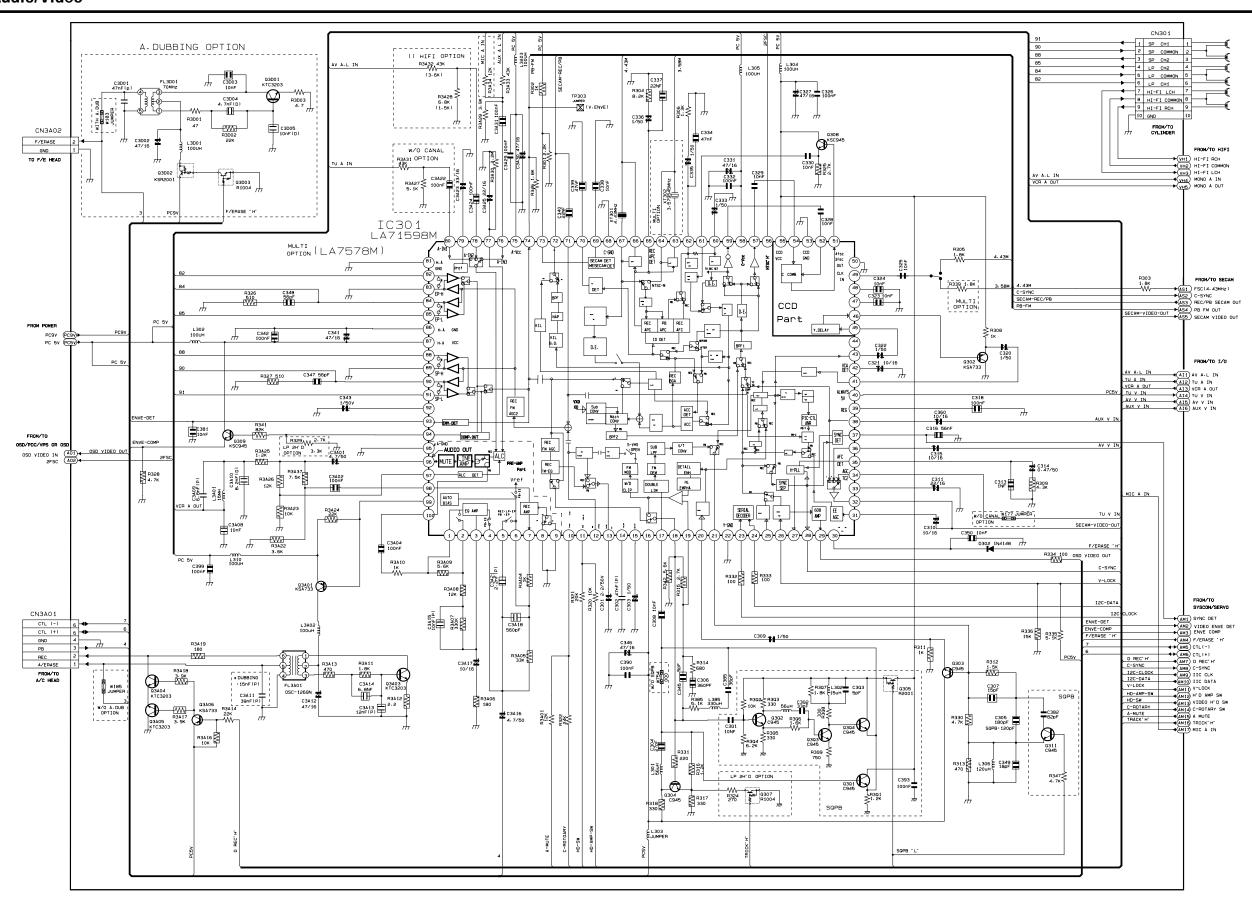
## 10-2 Power



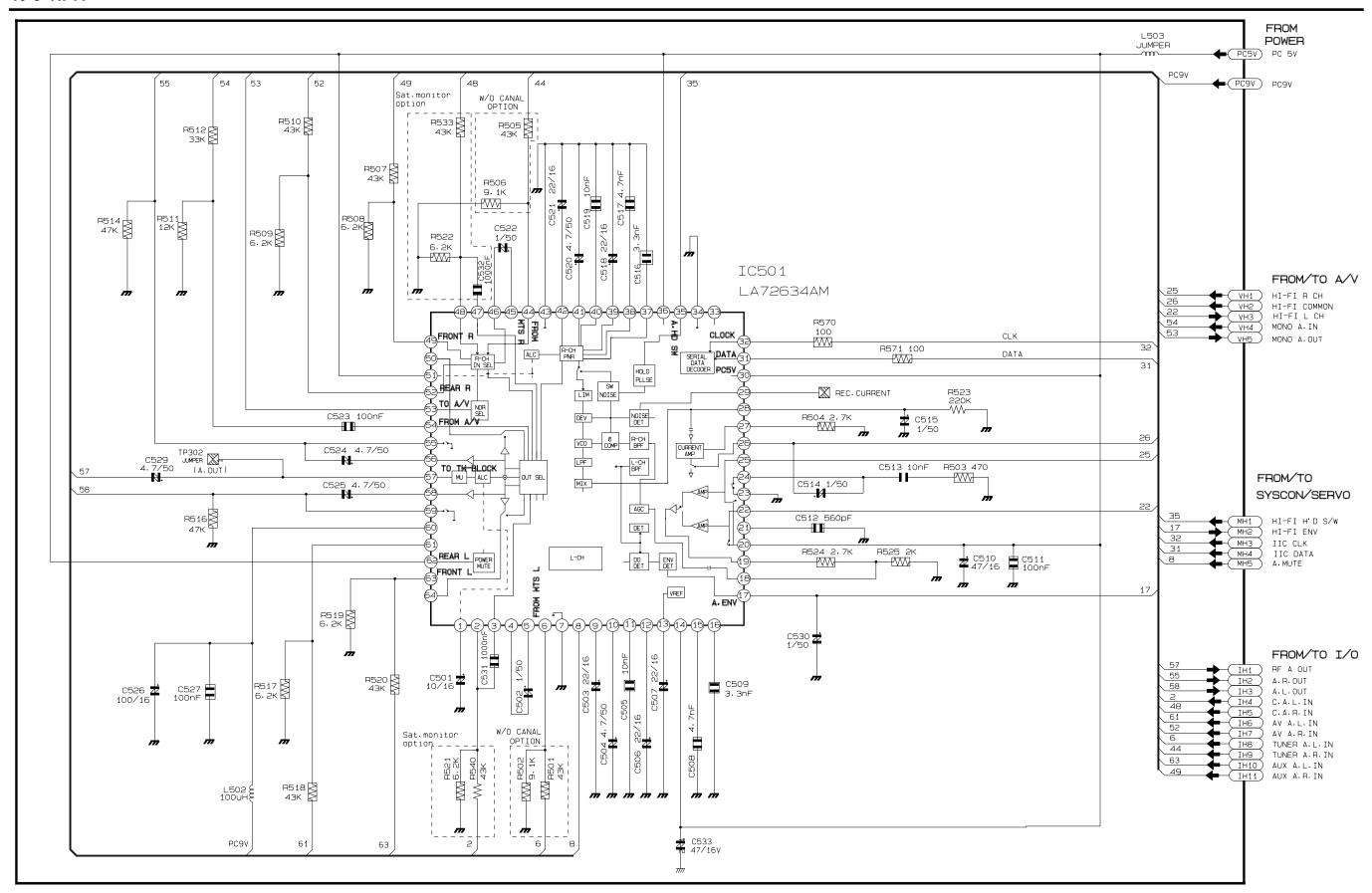
## 10-3 System Control/Servo/Display



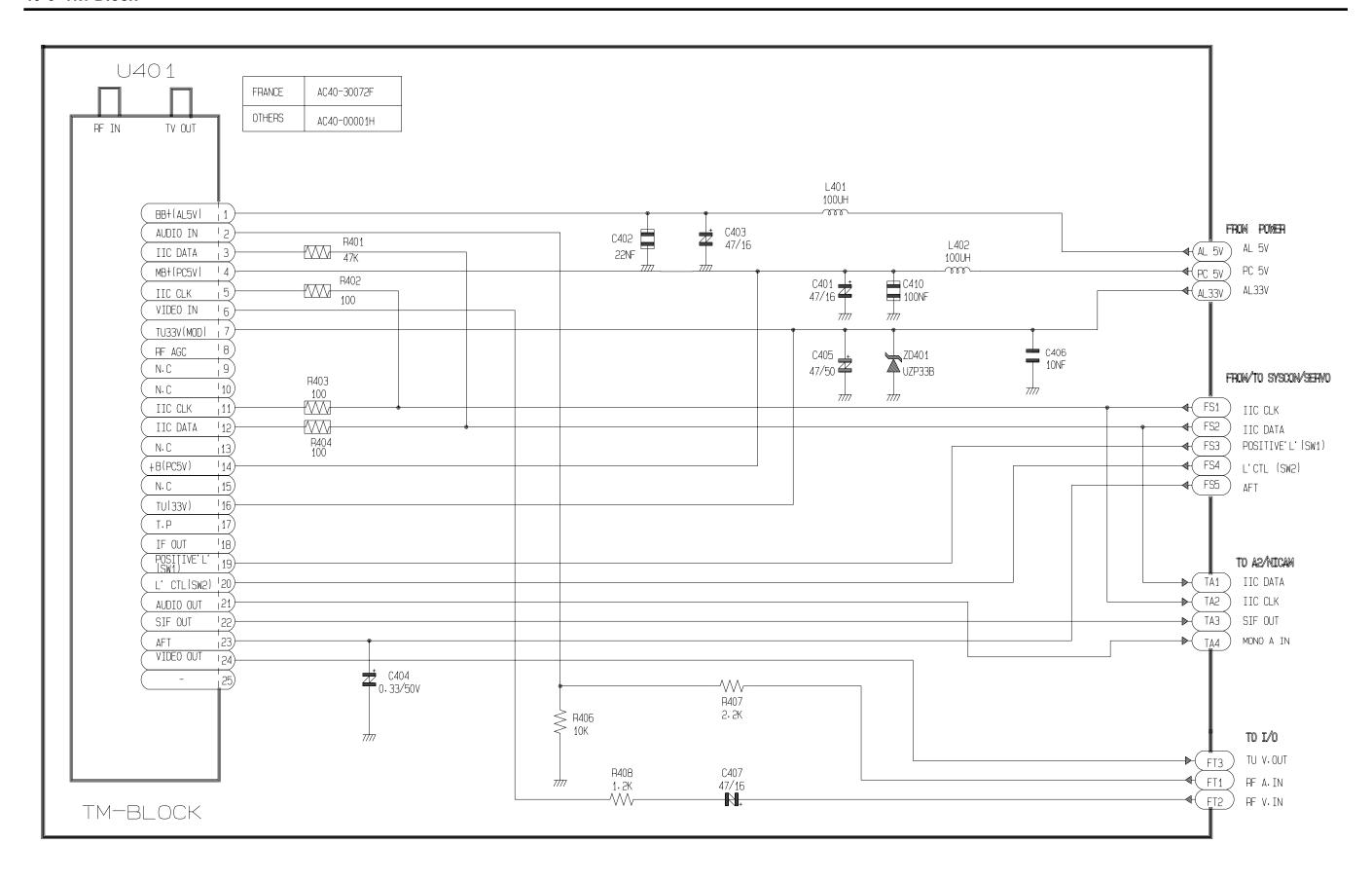
#### 10-4 Audio/Video



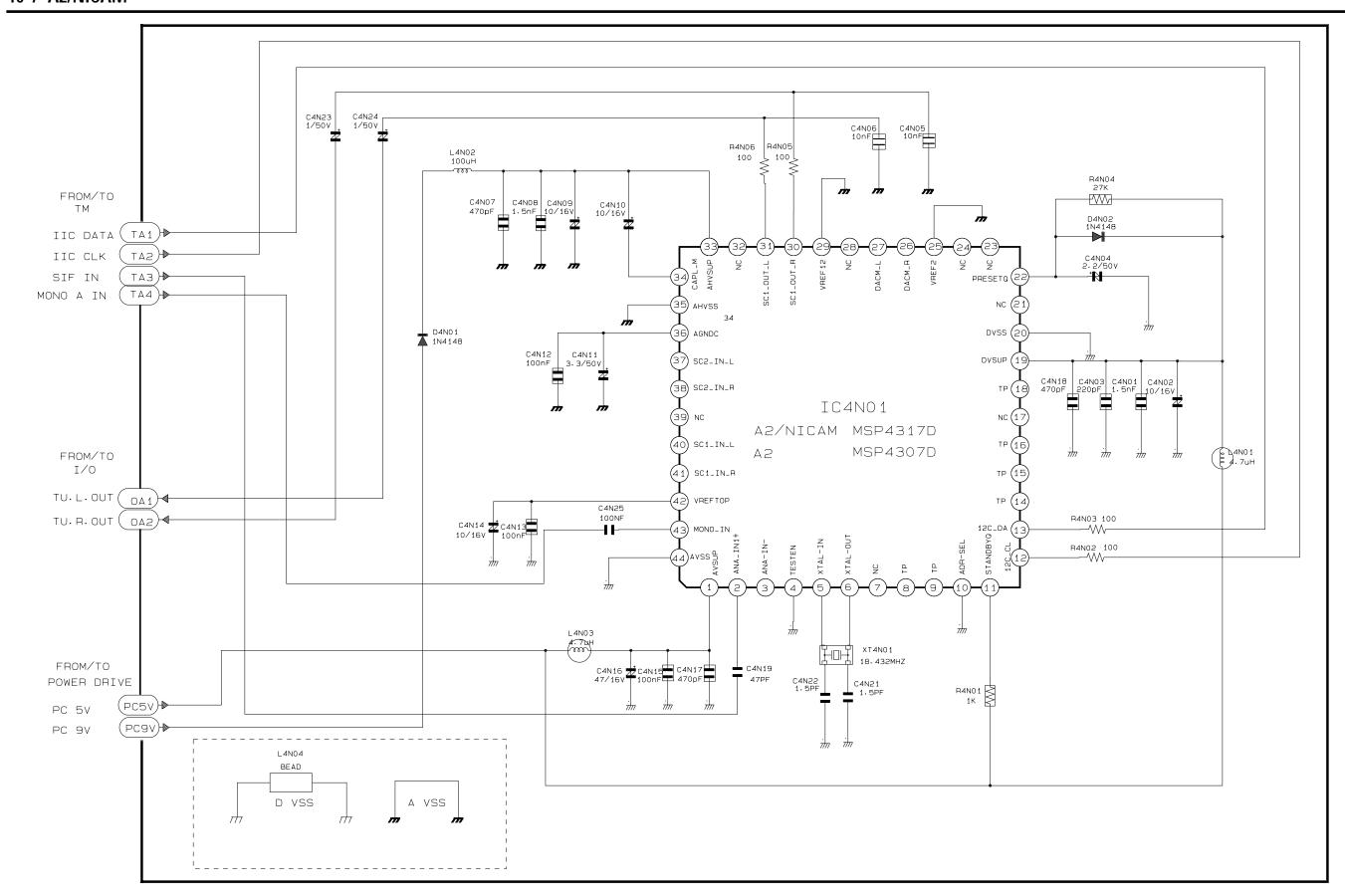
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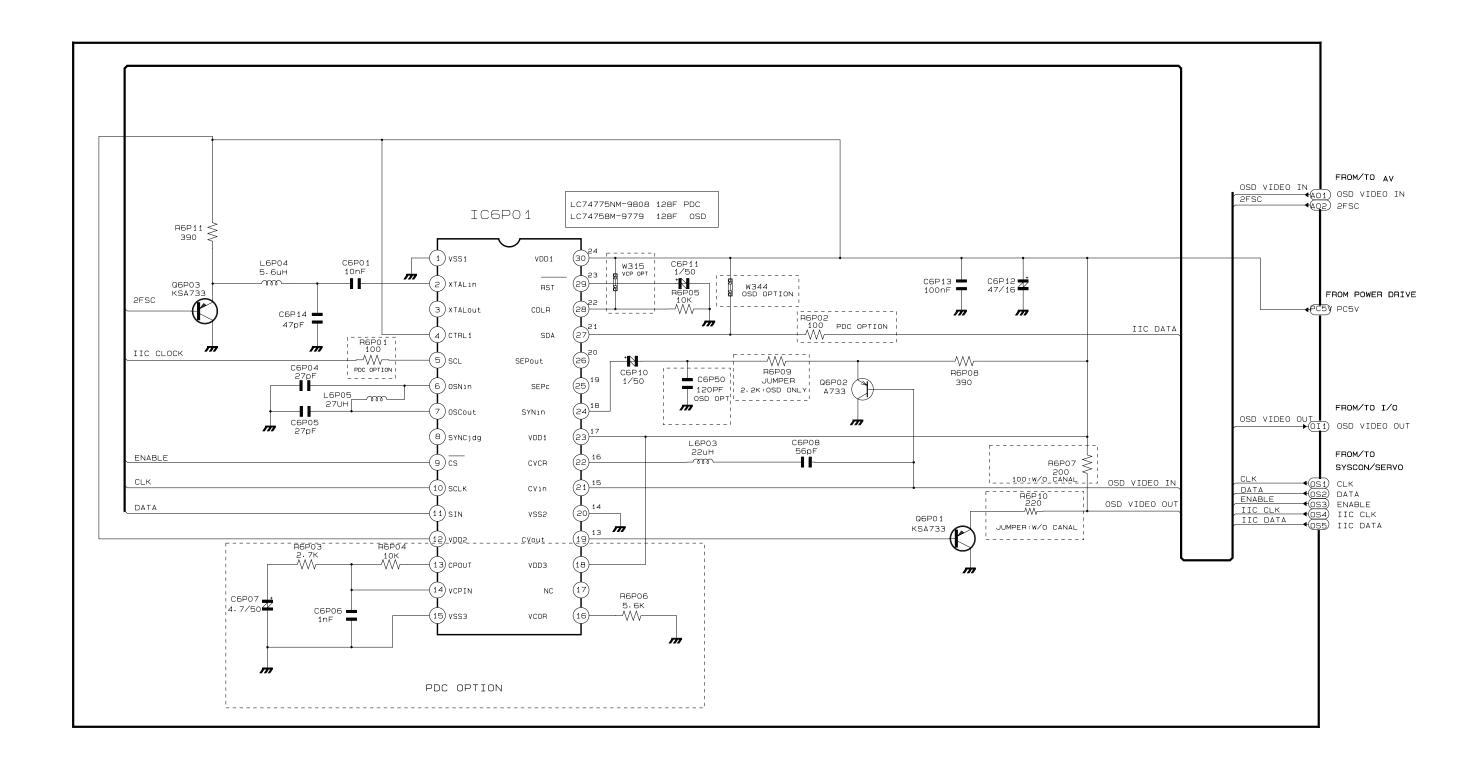


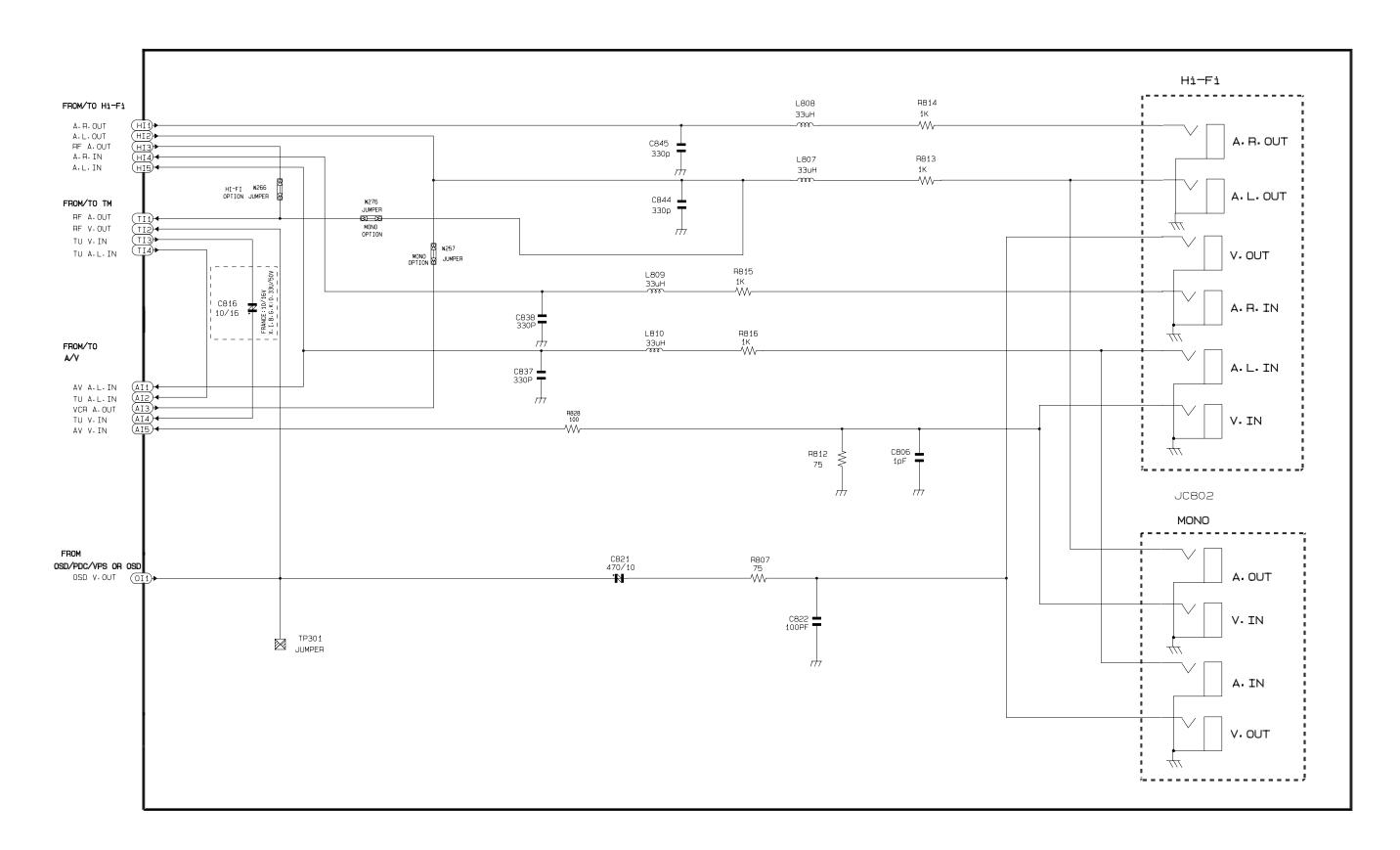
### 10-6 TM-Block



### 10-7 A2/NICAM







## 10-10 F-AV ASSY

